

DX LISTENING DIGEST 13-51, December 18, 2013  
Incorporating REVIEW OF INTERNATIONAL BROADCASTING  
edited by Glenn Hauser, <http://www.worldofradio.com>

Items from DXLD may be reproduced and re-reproduced only if full credit be maintained at all stages and we be provided exchange copies. DXLD may not be reposted in its entirety without permission.

Materials taken from Arctic or originating from Olle Alm and not having a commercial copyright are exempt from all restrictions of noncommercial, noncopyrighted reusage except for full credits

For restrictions and searchable 2013 contents archive see  
<http://www.worldofradio.com/dxldmid.html>  
[also link to previous years]

NOTE: If you are a regular reader of DXLD, and a source of DX news but have not been sending it directly to us, please consider yourself obligated to do so. Thanks, Glenn

#### WORLD OF RADIO 1700:

\*DX and station news about: Australia, China, Colombia non, Cuba, Diego Garcia, East Turkistan, Equatorial Guinea, Eritrea non, Ethiopia non, Germany and non, Goa, India, International Internet, Israel, Kashmir, Korea North non, Latvia, Mali, Morocco, Myanmar, Netherlands non, Nigeria non, Norway, Peru, Romania, Russia, Rwanda non, Saudi Arabia, Sweden, Taiwan non, UK , USA and non

#### SHORTWAVE AIRINGS OF WORLD OF RADIO 1700, December 19-25, 2013

Thu 0430	WRMI	9955	[replayed 1699]
Thu 1330	WRMI	9955	[NEW; confirmed]
Thu 2201	WTWW	9475	[confirmed]
Fri 0428v	WWRB	3195	[confirmed]
Sat 0300v	WBCQ	5110v-CUSB Area 51	[confirmed at 0303, now canceled]
Sat 0730	HLR	7265-CUSB	Hamburger Lokalradio
Sat 1530	HLR	7265-CUSB	Hamburger Lokalradio
Sun 0030	WTWW	5085	[not on air this week!]
Sun 0501	WTWW	5830	[confirmed, but poor propagation here]
Tue 1200	WRMI	9955	[now better via Okeechobee]
Wed 0730	HLR	7265-CUSB	Hamburger Lokalradio [pre-empted till Jan 8]
Wed 1530	HLR	7265-CUSB	Hamburger Lokalradio [pre-empted till Jan 8]
Thu 0430	WRMI	9955	[or 1701 if ready in time]

Latest edition of this schedule version, including AM, FM, satellite and webcasts with hotlinks to station sites and audio, is at:  
<http://www.worldofradio.com/radioskd.html> or  
<http://schedule.worldofradio.org> or <http://sked.worldofradio.org>

For updates see our Anomaly Alert page:  
<http://www.worldofradio.com/anomaly.html>

WRN ON DEMAND: [no longer available]  
WORLD OF RADIO PODCASTS VIA WRN:  
[no longer available; shall we set up our own podcasting?]

OUR ONDEMAND AUDIO:  
<http://www.worldofradio.com/audiomid.html>  
or <http://wor.worldofradio.org>

DAY-BY-DAY ARCHIVE OF GLENN HAUSER'S LOG REPORTS:  
Unedited, uncondensed, unchanged from original version, many of them too complex, minutely researched, multi-frequency, opinionated, inconsequential, off-topic, or lengthy for some log editors to manage; and also ahead of their availability in these weekly issues:  
<http://www.hard-core-dx.com/index.php?topic=Hauser>

DXLD YAHOOGROUP: Why wait for DXLD? A lot more info, not all of it appearing in DXLD later, is posted at our yg without delay.

When applying, please identify yourself with your real name and location, and say something about why you want to join. Those who do not, unless I recognize them, will be prompted once to do so and no action will be taken otherwise. Here's where to sign up:  
<http://groups.yahoo.com/group/dxld/>

\*\* ALASKA. 6190, KNLS 1537+ 12 Dec. A one-off, apparently, with an English program of holiday music (Springsteen & others) + interview / chat with a woodcarver/craftsperson. Aoki has them sked here 16-18 UT in Russian (Dan Sheedy, Swami's Beach, CA, G5/6m X wire, DX LISTENING DIGEST)

9615, Dec 17 at 1402, KNLS theme music, Chinese pronouncing website in English: [www.smzg.org](http://www.smzg.org) Fair signal, not usually heard, so has it not been on or just not propagating? Into hymn in English. 9615 is HFCC-registered for KNLS Chinese at 14-15, 285 degrees, as well as at 10-12 UT, plus English 12-13, 270 degrees. Own website shows 10-11 hour on 9615 is also in English, not Chinese. However, CNR Mongolian service westward from Beijing site is also on 9615 at 12-14 (Glenn Hauser, OK, DX LISTENING DIGEST)

\*\* ARGENTINA. 11710.9, Radio al Exterior; 0208-0220+, 14-Dec; English news 0208:30-0214:30 with fanfare between items; EZL SS c=vocals before & after. 0219+ "Tag along in Twitter, Rae," SIO=353 (Harold Frodge, M.A.R.E. DXpedition, Brighton MI, Drake R8B + 500' NEish unterminated bev + 85' TTFD, All logged by my ears, on my receiver, in real time! DX LISTENING DIGEST)

11710, RAE, 17/12 0148 UT. Servicio en japonÈs con m'sica en espa0ol y explicaciones acerca de ciertos hechos argentinos. SINPO: 55454  
(Claudio Galaz, Antena: Hilo de 5 metros de cable de cobre, RX: Tecsun PL-660, QTH: Poblado de Barraza Bajo, Comuna de Ovalle, IV Regi0n, Chile, condiglista yg via DXLD)

Great opening to Argentina, RAE audible all night long! 15344.882 kHz  
<http://goo.gl/ivjKZ0>

73 (Nick VK2DX Hacko, NSW, 2021 UT Dec 18, dxldyg via DX LISTENING DIGEST)

\*\* ASCENSION. 15105, Dec 13 at 2005, Hausa with characteristic ``generator hum`` from this site. Why don't they filter it out? Trouble is, Aoki shows Hausa is only at 1930-2000 daily. Latest HFCC, however, also of Dec 13, shows that on Fridays only there is another semi-hour until 2030, 250 kW, 65 degrees from ASC, supposedly effective from beginning of B-13 (Glenn Hauser, OK, DX LISTENING DIGEST) See also SEYCHELLES

\*\* AUSTRALIA. B-13 shortwave schedule of HCJB Australia:  
0730-0830 on 15490 KNX 100 kW / 080 deg to Pac English

1000-1030 on 15400 KNX 100 kW / 345 deg to EaAs Chinese Sat/Sun  
1000-1030 on 15400 KNX 100 kW / 345 deg to EaAs Fijian Mon-Fri

1030-1100 on 15400 KNX 100 kW / 345 deg to EaAs Chinese

1100-1115 on 15400 KNX 100 kW / 345 deg to EaAs English Mon/Wed/Thu  
1100-1115 on 15400 KNX 100 kW / 345 deg to EaAs Vietnamese Tue/Fri

1100-1125 on 15400 KNX 100 kW / 345 deg to EaAs Japanese Sat/Sun

1130-1145 on 11700 KNX 100 kW / 320 deg to SEAs English Sat-Mon  
1130-1145 on 11700 KNX 100 kW / 320 deg to SEAs Burmese Tue/Thu  
1130-1145 on 11700 KNX 100 kW / 320 deg to SEAs Chinese Wed/Fri

1145-1215 on 11700 KNX 100 kW / 320 deg to SEAs Rawang

1215-1245 on 15400 KNX 100 kW / 345 deg to SEAs Indonesian

1230-1245 on 15340 KNX 100 kW / 310 deg to SoAs English Sun-Fri  
1230-1245 on 15340 KNX 100 kW / 310 deg to SoAs Nepali Sat

1245-1300 on 15340 KNX 100 kW / 310 deg to SoAs Hindi Sun/Thu/Fri  
1245-1300 on 15340 KNX 100 kW / 310 deg to SoAs Nepali Sat  
1245-1300 on 15340 KNX 100 kW / 310 deg to SoAs Bengali Mon  
1245-1300 on 15340 KNX 100 kW / 310 deg to SoAs Marwari Tue

1245-1300 on 15340 KNX 100 kW / 310 deg to SoAs Kuruk Wed  
1245-1300 on 15400 KNX 100 kW / 345 deg to SEAs Malaysian Sun  
1245-1300 on 15400 KNX 100 kW / 345 deg to SEAs Indonesian Mon-Sat

1300-1315 on 15340 KNX 100 kW / 310 deg to SoAs Punjabi Sun  
1300-1315 on 15340 KNX 100 kW / 310 deg to SoAs Nepali Mon-Thu  
1300-1315 on 15340 KNX 100 kW / 310 deg to SoAs Dzongkha Fri  
1300-1315 on 15340 KNX 100 kW / 310 deg to SoAs Oriya Sat

1315-1330 on 15340 KNX 100 kW / 310 deg to SoAs Bhojpuri Sun  
1315-1330 on 15340 KNX 100 kW / 310 deg to SoAs Tamil Mon/Tue  
1315-1330 on 15340 KNX 100 kW / 310 deg to SoAs Hmar Wed  
1315-1330 on 15340 KNX 100 kW / 310 deg to SoAs Malayalam Thu  
1315-1330 on 15340 KNX 100 kW / 310 deg to SoAs Marathi Fri  
1315-1330 on 15340 KNX 100 kW / 310 deg to SoAs Urdu Sat

1330-1345 on 15340 KNX 100 kW / 310 deg to SoAs Hindi

1345-1400 on 15340 KNX 100 kW / 310 deg to SoAs Hindi Sat-Thu  
1345-1400 on 15340 KNX 100 kW / 310 deg to SoAs English Fri

[NOTE: after \*1400v, 15340 collides with R Habana Cuba --- gh]

1400-1430 on 15340 KNX 100 kW / 310 deg to SoAs Urdu  
1430-1445 on 15340 KNX 100 kW / 310 deg to SoAs Chattisgarhi Sat/Sun  
1430-1445 on 15340 KNX 100 kW / 310 deg to SoAs Bengali Mon  
1430-1445 on 15340 KNX 100 kW / 310 deg to SoAs Marwari Tue  
1430-1445 on 15340 KNX 100 kW / 310 deg to SoAs Kuruk Wed  
1430-1445 on 15340 KNX 100 kW / 310 deg to SoAs Telugu Thu  
1430-1445 on 15340 KNX 100 kW / 310 deg to SoAs Gujarati Fri

1445-1500 on 15340 KNX 100 kW / 310 deg to SoAs Punjabi Sun  
1445-1500 on 15340 KNX 100 kW / 310 deg to SoAs Hindi Mon-Fri  
1445-1500 on 15340 KNX 100 kW / 310 deg to SoAs Urdu Sat

1500-1530 on 15340 KNX 100 kW / 310 deg to SoAs English

2230-2300 on 15525 KNX 100 kW / 345 deg to EaAs Chinese Mon-Fri  
2230-2300 on 15525 KNX 100 kW / 345 deg to EaAs Japanese Sat/Sun

2300-2330 on 15525 KNX 100 kW / 345 deg to EaAs Chinese Sat/Sun  
2300-2330 on 15525 KNX 100 kW / 345 deg to EaAs Fijian Mon-Fri

2345-2400 on 15400 KNX 100 kW / 310 deg to SEAs Indonesian

0000-0030 on 15400 KNX 100 kW / 310 deg to SEAs Malayalam Sun  
0000-0030 on 15400 KNX 100 kW / 310 deg to SEAs Indonesian Mon-Sat

0030-0100 on 15400 KNX 100 kW / 310 deg to SEAs Rawang  
0030-0100 on 17760 KNX 100 kW / 310 deg to SEAs Rawang

0100-0115 on 15400 KNX 100 kW / 310 deg to SEAs English Sat-Mon  
0100-0115 on 17760 KNX 100 kW / 310 deg to SEAs English Sat-Mon  
0100-0115 on 15400 KNX 100 kW / 310 deg to SEAs Burmese Tue/Thu  
0100-0115 on 17760 KNX 100 kW / 310 deg to SEAs Burmese Tue/Thu  
0100-0115 on 15400 KNX 100 kW / 310 deg to SEAs Chinese Wed/Fri  
0100-0115 on 17760 KNX 100 kW / 310 deg to SEAs Chinese Wed/Fri

0115-0130 on 17760 KNX 100 kW / 310 deg to SoAs Punjabi Sun  
0115-0130 on 17760 KNX 100 kW / 310 deg to SoAs Bengali Mon  
0115-0130 on 17760 KNX 100 kW / 310 deg to SoAs Marwari Tue  
0115-0130 on 17760 KNX 100 kW / 310 deg to SoAs Kuruk Wed  
0115-0130 on 17760 KNX 100 kW / 310 deg to SoAs Nepali Thu-Sat

0130-0145 on 17760 KNX 100 kW / 310 deg to SoAs Bhojpuri Sun  
0130-0145 on 17760 KNX 100 kW / 310 deg to SoAs Tamil Mon/Tue  
0130-0145 on 17760 KNX 100 kW / 310 deg to SoAs Hmar Wed  
0130-0145 on 17760 KNX 100 kW / 310 deg to SoAs Malayalam Thu  
0130-0145 on 17760 KNX 100 kW / 310 deg to SoAs Marathi Fri

0145-0200 on 17760 KNX 100 kW / 310 deg to SoAs Hindi

0200-0215 on 17760 KNX 100 kW / 310 deg to SoAs Hindi Sat-Thu  
0200-0215 on 17760 KNX 100 kW / 310 deg to SoAs English Fri

0215-0230 on 17760 KNX 100 kW / 310 deg to SoAs Chattisgarhi Sat/Sun  
0215-0230 on 17760 KNX 100 kW / 310 deg to SoAs Bengali Mon  
0215-0230 on 17760 KNX 100 kW / 310 deg to SoAs Marwari Tue  
0215-0230 on 17760 KNX 100 kW / 310 deg to SoAs Kuruk Wed  
0215-0230 on 17760 KNX 100 kW / 310 deg to SoAs Telugu Thu  
0215-0230 on 17760 KNX 100 kW / 310 deg to SoAs Gujarati Fri  
(Ivo Ivanov, DX RE MIX NEWS #826 December 16, 2013, via DXLD)v ECUADOR  
[English portion above on WORLD OF RADIO 1700]

\*\* BANGLADESH. 4750.00, 1625-1705\* 16.12, Bangladesh Betar, Khabirpur,  
Bengali radiodrama with flute music, talk by man and woman, 1649  
Bengali songs, 1659 ID, news, abrupt s/off, 34232, CWQRM (Anker  
Petersen, on my AOR AR7030PLUS with 28 metres of longwire in  
Skovlunde, Denmark, via Dario Monferini, playdx yg via DXLD)

\*\* BANGLADESH. 15105, Bangladesh Betar; \*1229:45-1237+, 15-Dec; On  
with pips-tone into English sked; 1231 English feature on war of  
independence; 1232+ brief English news; 1233 more on the "Liberation  
War". SIO=353 (Harold Frodge, M.A.R.E. DXpedition, Brighton MI, Drake  
R8B + 500' NEish unterminated bev + 85' TTFD, All logged by my ears,  
on my receiver, in real time! DX LISTENING DIGEST)

\*\* BARBADOS. 24951-USB, Dec 13 at 2015, JBA signal fading in and out from ham calling CQ, then contacts, with ICAO fonetix, but I can't make out what the first letter in his call is: #P9JB; mostly in English but once gave call in Spanish with ``nueve``. Said to QSL via a J6 call. Spelt name several times as ERNEST; fading in and out; 2021 mentions ``somebody else used that call``, finally says ``in Barbados``, so now I know the first ``letter`` must be a number: 8P9JB. But that's no Ernest per QRZ.com lookup:

8P9JB Barbados  
William Roberts  
8P9Z  
St. Peter Parish  
Barbados

Maybe part of what I heard on same frequency was another weak station in contact. He says also to look up <http://dxsummit.com> for more info but both that and [www + that convert to www2.dxsummit.com](http://www2.dxsummit.com) which is merely a parker/squatter, no real website (Glenn Hauser, OK, DX LISTENING DIGEST)

\*\* BOLIVIA. 3310.00, R. Mosoj Chaski, Cochabamba, 17/12 1010-1040, 33333, px en quechua, saludos y mxf, ID iMosoj Chasqui"

4716.70, R. Yatun Ayllu, Santiago Quijaro, 10/12 2340-0015, 33333, mx, hablan sobre las mujeres, recitan una poesia, regular QRN, imposible continuar; mx latina apenas audible, mejor la escucho en LSB. A las 0015 se perdi  la se al. NOTA: no dieron ID

5952.50, R. Pio XII, Siglo XX, 4/12 2350-0015, 44444, news en quechua, px Servicio satelital de noticias para Bolivia, advs Denuncia la violencia familiar, no te quedes callada, denuncialo, nosotros te apoyaremos. ID "Por Radio Pio XII"

6025.00, R. Patria Nueva, La Paz, 11/12 0010-0040, 44444+, px sobre la seguridad ciudadana, discurso del nuevo Comandante de Polic a, ID "Patria Nueva Radio, la voz del estado boliviano"

6134.80, R. Santa Cruz, Santa Cruz, 3/12 2220-2250, 44444, news sobre la Cumbre Iberoamericana de Justicia, ID "Desde Radio Santa Cruz", px Bolivia en Contacto. La radio est  pensada en la gente y para la gente".

La recepci n la he efectuado del 28/11 al 17/12 en compa  a de mi sabueso Icom IC R72 acompa ado del Mizuho KX-3, una antena de hilo largo de 12 metros y una antena loop. Vivo en una casa muy peque a, pero, sus ventanas se abren hacia un mundo muy grande. Muchos 128 s

PFA (Pedro F. Arrun·tegui, Lima, Dec Chasqui DX, DX LISTENING DIGEST)

6134.8, Radio Santa Cruz; 0122-0129+, 14-Dec; baladas y cumbias; Spanish promo string to "Esta es..." spot (missed it) at 0124, then "Santa Cruz" (no Radio) at 0128. SIO=222; USB helps with swiper QRM (Harold Frodge, M.A.R.E. DXpedition, Brighton MI, Drake R8B + 500' NEish unterminated bev + 85' TTFD, All logged by my ears, on my receiver, in real time! DX LISTENING DIGEST) You mean CODAR? Surely not inside the 49mb? (gh, DXLD)

\*\* BRAZIL. 3365, R Cultura Araraquara, 0101 UT, SINPO 45444, m'sica de ID da emissora  
3375, R Municipal, 0102 UT. Nota ==> sinal Muito bom na nova antena/  
45333, ID Completa da estaÁ,,o/OM

4785, R Caiari de Rondônia, 1016 UT, 45444, hora certa 6:15 da manh,,/anunciou tbm os 1430, AM da estaÁ,,o.

4865, R Verdes Florestas do Acre ESCUTA EXCLUSIVA >> em minha localidade << 0108 UT, 45333 /mx de gino e geno/ OM cxs

4885, R Clube do Par., 0110 UT, 45444, cxs sobre jogos/Px/OM  
4885, R Maria de An·polis, 1055 UT, 45333, cxs da igreja do centro/ YL

4925, R EducaÁ,,o Rural, 0153, 45444 falou sobre anivers·rio de 50 anos da emissora/e comercial da casa do agricultor (Daniel Wylllyans, Nova Xavantina MT Brazil, 13 Dec, Radio Escuta PT 9008 SWL, RECEPTOR Tecsun PL 660 Antena Long Wire 10 Meters, <http://dxbrazilsw.blogspot.com/> dxldyg via DX LISTENING DIGEST)

\*\* BRAZIL. 4865.00, BRASIL, R. Verde[s] Florestas, Acre, 12/12 1055-1125, 33333, mx, ID iRadio Verde Florestaî news, (escuchar grabaciûn)

5939.86, BRASIL, R. Voz Missionera, Cambio`, SC, 11/12 2340-0005, 44444, px religioso, ID "Radio Voz Missionera", px Noticiero Ultima Hora, news, mx religiosa, ID iEn La frecuencia de 5940 kHz, 2 kW de potencia y 8 trasmisores instalados en.. Santa Catarina, Brasil, Radio Voz Cristiana Brasil..î (escuchar grabaciûn) (Pedro F. Arrun·tegui, Lima, Dec Chasqui DX, DX LISTENING DIGEST)

\*\* BRAZIL. 9585, Super R·dio Deus È Amor, S,,o Paulo, 0703-0712, 14-12, male, religious program, Portuguese, identification: "Super R·dio Deus È Amor, S,,o Paulo, 9585 kHz, banda de 31 metros y 6120 kHz, banda de 49 metros", religious songs, comments. Parallel with 6120, 9565 and 11765 kHz. 24322. Also 0703-0720, 15-12, male, Portuguese, religious comments and songs, // with 9565 and 11765. 24322 (Manuel MÈndez, Lugo, Spain, Logs in Reinante, Sony ICF SW 7600 G, cable antenna, 8 meters, dxldyg via DX LISTENING DIGEST)

\*\* BRAZIL. 10000, Time Signal Station Observatório Nacional, Rio de Janeiro, 2114-2119, 13-12, time signals, time female announcements: "Observatório Nacional, 19 horas, 14 minutos, 40 segundos". 24322 (Manuel Méndez, Lugo, Spain, Logs in Reinante, Sony ICF SW 7600 G, cable antenna, 8 meters, dxldyg via DX LISTENING DIGEST)

\*\* CAMBODIA [non]. CLANDESTINE, 9960, Khmer Post R. via Palau, Dec 15 \*1200-1211, 45444, Khmer, 1200 sign on with opening music, ID, Opening announce, Talk (Kouji Hashimoto, JAPAN, RX, IC-R75, NRD-525+RD-9830, NRD-515, NRD-345, Satellite 750, DE-1121, ANT, 70m Sloper Wire, DX LISTENING DIGEST) This one is daily

\*\* CANADA. The latest news from Canada, via Shawn Axelrod and Dan Sys: 530, CIAO, ON, Brampton ñ Applies for U1 1000/250 from a new tower at existing site.  
580, New, AB, Edmonton ñ Applies for new station, U4 10000/10000 with ETH format (the ghost of CKUA having only just departed).  
590, CFAR, MB, Flin Flon ñ New // CFAR-102.9 is on the air, but (unusually) AM will stay.

Finally, here are Wayne's latest updates for the NRC AM Log:  
CFAR, MB, Flin Flon ñ Slogan to iAR Radio, ñ adds // CFAR-FM-102.9 (NRC DX News Dec 23 via DXLD)

\*\* CANADA. New station applications - 600 in Vancouver

In March CRTC invited applications for a new FM station in the Vancouver area. Although primarily for FM, three of the 17 applications include operation on 600 kHz AM which was vacated by CKPK in December 2008. The three applications in CRTC's notice of consultation 2013-568 are:

1) Ethnic format - Sher-E-Punjab Radio, applying for 600 kHz.

The applicant states that of the total programming broadcast during the broadcast week, 100% would be devoted to ethnic programming and 98.4% would be devoted to third language programming. Two alternate proposals were also filed for FM stations in Richmond and Surrey BC without AM operation. If approved, the applicant will cease broadcasting on KRPI 1550 Ferndale, Washington.

2) Business format - 2308739 Ontario Inc iBiz600i.

The applicant proposes a spoken word format directed to business news and information. This application was AM-only with no proposals for FM.



### 3) Ethnic format - South Asian Link Directory Ltd ñ

In applying for 107.7 FM in Surrey, BC, the applicant also submitted an alternate proposal (application 2013-0890-9) for the use of the AM frequency 600 kHz (channel 600B) with a transmitter power of 10,000 watts (directional antenna with an EHAAT of 118.7 metres).

The applicant proposes to offer a third-language news/talk-spoken word format targeting predominantly third and fourth generations of Canadian-South Asians aged 18 to 30 years old. The applicant states that all of its programming would consist of third-language programming (Medium Wave News 59/07 44 December 2013 via DXLD)

\*\* CANADA. Wet day so have started playing back my cassettes back to April. On 31 October, however, I sat on 1690 listening to back-to-back frenetic tempos mixed with others. The ID I wrote down from a male announcement was 2BLE then 2JLO. Then on a web search CJLO Montreal! Have just tuned into their web stream and it is likely to be CJLO. It's a University station, and following the ID a YL with announcements very similar to the feed I have just listened to. Not bad for 1 kW. Have saved the clip. Now transcribing CHHA at its boom a couple of weeks ago (Tony King, Greytown, New Zealand, Nov-Dec NZ DX Times via DXLD) Yes, your CJLO recording impressive, Tony ñ a NZ first I'm sure! (Bryan Clark, ed., ibid.)

\*\* CANADA. 6030, CFVP, Calgary, 2230 Dec 12, string of ads for Canadian Blood Services, Okotoks GM, Winners, Sleep Country, Wendys and Volkswagen, 2234 back to a food bank fundraiser program. Fair. (Harold Sellers, Vernon, British Columbia, Listening in my car, by the lake, with the Eton E1 and Sony AN1 active antenna, dxldyg via DX LISTENING DIGEST)

\*\* CANADA. WHERE CAN THE CBC FIND CLUES TO A HOCKEY-FREE FUTURE?  
<http://www.theglobeandmail.com/arts/television/where-can-the-cbc-find-clues-to-a-hockey-free-future-why-the-cbc/article15677507/>  
(via Gerald T Pollard, Nov 30, DXLD)

\*\* CANADA [non]. GERMANY (non), Media Broadcast changes:  
Bible Voice Broadcasting  
0900-0915 on 17540 NAU 125 kW / 145 deg to NEAf Arabic Sat, additional  
1300-1330 on 17540 ISS 100 kW / 120 deg to N/ME Arabic Fri, cancelled  
1515-1530 NF 13630 SOF 100 kW / 090 deg to SoAs Tamil Fri, ex 13740  
1515-1545 NF 13630 SOF 100 kW / 090 deg to SoAs English Sat, ex 13740  
1530-1600 NF 13630 SOF 100 kW / 090 deg to SoAs Urdu Fri, ex 13740  
(Ivo Ivanov, DX RE MIX NEWS #828 December 18, 2013 via DXLD)

\*\* CHINA. MW: see DX-PEDITIONS

\*\* CHINA [and non]. [misc. jamming reports, in approx. chrono order:]

9680, CNR1, DEC 11, 1630. At first, sounded like TAIWAN RTI (direct - Tamsui District), M in listed Chinese. Refs show RTI jammed, no jamming heard. At ToH, heard pips unlike RTI, ID by M in Chinese to be CNR1, then off. Was PRC China all along, the jamming was the station. In this case, RTI not heard at all. Powerful (Rick Barton, AZ, Dec 13, DX LISTENING DIGEST)

Sometimes China jamming places small units even 24 hours on channel. On Dec 12 morning China mainland jamming heard:

15560, against VoA Tibetan 04-06 UT, + spoken CNR1 relay and additional FIREDRAKE music jamming. S=9+20dB. And adjacent next door 15570 kHz CNR11 program Tibetan language service too, to give pressure from the upper frequency flank?

21700, Firedrake music jamming too, and various echo signals at 0520 UT on Dec 12, S=9+25dB signal.

17690, Firedrake music + various CNR spoken program echoes against RFA Chinese from Saipan-MRA island, S=9+30dB.

17860, Firedrake music + various CNR spoken program echoes against VoA Tibetan from Tinang-PHL. S=9+20dB signal sum at 0527 UT (Wolfgang B,schel, wwdxc BC-DX TopNews Dec 13 via DXLD)

9455, Dec 13 at 2032, Firedrake, fair with flutter, much better than on 9355; in drumming solo at 2035. Both are to block R. Free Asia in overnight Chinese via Saipan, 17-22 on the lower, 16-22 on the upper (Glenn Hauser, OK, DX LISTENING DIGEST)

EAST JAMMERSTAN:

6095, Crash & Bang CC Music Jammer; 2130, 14-Dec (Frodge-DXP)  
11945, Crash & Bang CC Music Jammer; 1514, 14-Dec; strong; //weak 6145  
13620, Crash & Bang CC Music Jammer; 0118, 15-Dec (Frodge-DXP)  
15520, Crash & Bang CC Music Jammer; 0202, 14-Dec; Weak with other audio; probably Radio Free Asia via Tinian (Harold Frodge, M.A.R.E. DXpedition, Brighton MI, Drake R8B + 500' NEish unterminated bev + 85' TTFD, All logged by my ears, on my receiver, in real time! DX LISTENING DIGEST)

13620, Firedrake music and chimes tones jamming at 0148 UT Dec 15, against RFA Tibetan from IBB Kuwait site (Wolfgang B,schel, wwdxc BC-DX TopNews Dec 15, dxldyg via DXLD)

/TAJIKISTAN/UAE, 9690v Broadband jamming against RFA Uighur service from Al Dhabbaya UAE, at 0138 UT Dec 15, also CNR1 spoken jammer, as

well ADDITIONAL broadband scratchy noise tone, centered on 9685 to 9694.5 kHz, visible on Perseus screen (Wolfgang B,schel, wwdx BC-DX TopNews Dec 15, dxldyg via DXLD) So we hear het against WRMI Brother Scare (gh, DXLD)

7480v, Broadband jamming against RFA Uighur service from Dushanbe-TJK site, terrible 7472.4 to 7487.5 kHz wide scratchy tone signal, which was much stronger strength on center part of 7476.7 to 7483.2 kHz, 0134 UT Dec 15 (Wolfgang B,schel, wwdx BC-DX TopNews Dec 15, dxldyg via DXLD)

9675, Dec 15 at 0631, M&W in Chinese, sounders. Nothing in HFCC, but Aoki has CNR1 at 2300-1000, 100 kW, 37 degrees USward from Beijing 572 site, and get this: it's NOT jamming anything!!! (Glenn Hauser, OK, DX LISTENING DIGEST)

9605, Dec 17 at 1408, heavy mix of Chinese services, at least one of which is // 9530. I.e. CNR1 jamming vs IBB Chinese this hour only on both 9530 and 9605 via PHILIPPINES. 9605 still same at 1453.

9320-9345 approx., extremely distorted FM blob, Dec 17 at 1455, at first seems peaking around 9335, or is it 9325? Anyhow, totally blox 9330 WBCQ. I manage to // the modulation to 9825 CNR1 jammer at 1458. Both run timesignals ending about a semisecond late after 1500, then 9825 goes off while lower blob does not. Then 9825 comes back on for a while with carrier only.

9400-9430, Dec 18 at 1440, filthy FMy extremely distorted spurblob centred about 9415, with CNR1 audio // 9530, 9680, 9825. No doubt it's the same transmitter which yesterday was infesting 9320-9345. Still there circa 9415 at 1501. I suspect this a persistently malfunctioning transmitter rather than deliberate jamming. Aoki shows no obvious targets in today's range, unless it's BBC English on 9410 which is supposedly \*jammed (Glenn Hauser, OK, WORLD OF RADIO 1700, DX LISTENING DIGEST)

9670, Dec 18 at 1443-1500\*, Firedrake is F-P here, new spot? Aoki shows victim is VOA Tibetan via Lampertheim, Germany, this hour only.

6075 & 6145, Dec 18 at 1448, poor signals from Firedrake, as usual, against RTI.

7530, Dec 18 at 1447, CNR1 jammer // 9680 and several other 7 MHz channels; 7530 target is VOA Tibetan via Tinang, this hour only.

9495, Dec 18 at 1459 open carrier in the clear, 1500 sign-on as R. Free Asia, a few seconds later hit by CNR1 jammer also making fast SAH. RFA is in Chinese via SAIPAN, this hour only per Aoki (Glenn

Hauser, OK, DX LISTENING DIGEST)

\*\* CHINA. 4800.00, \*2025-2035 16.12, Voice of China (CNR-1), Golmud, Chinese with\_new B-13 schedule\_: 2025-1805, ex 1955-1735. Heard with a few seconds test at 2007 with music and ann, but then from \*2025: IS, 4 ID's: "Zhongyang Renmin Guangbo Diantai", piano music, 2028 2 ID's and "The East is Red" march, 2030 talk by man and woman 45333 (Anker Petersen, on my AOR AR7030PLUS with 28 metres of longwire in Skovlunde, Denmark, via Dario Monferini, playdx yg via DXLD)

\*\* CHINA. 6165.00, 1410-1500 16.12, Voice of Shenzhou (CNR-6), Beijing, Amoy ann, mostly Chinese pop music, 35343. From \*1500 drowned by CRI 6165 in Farsi (Anker Petersen, on my AOR AR7030PLUS with 28 metres of longwire in Skovlunde, Denmark, via Dario Monferini, playdx yg via DXLD)

\*\* CHINA. Voice of the South China Sea (?) --- WRTH 2014 edition has this on 17710 kHz in English at 0600-0700 UT. Observed this morning (13 Dec) with tx modulating at 0559.50 with a brief snatch of Mandarin followed by time pips, slogan and English ID: "This is Beijing ten-0-eight AM, Discover Plus Radio, a division of China Radio International"; then five minutes of news followed by 'People in the Know'. There was no 'Voice of the South China Sea' identification. The service nominally has an audio stream accessible via an embedded audio player at [vscs.cri.cn](http://vscs.cri.cn), but I can never get a peep out of it. Reception was very good via Global Tuners HK remote (David Kernick, Interval Signals Online, Dec 13, dxldyg via WORLD OF RADIO 1700, DX LISTENING DIGEST)

Hi Dave, Program schedule for AM 1008 in Beijing:

14:00-14:05 [0600-0605 UT] Hourly News

14:05-14:30 People in the Know

14:05-14:30 Heartbeat (Weekends)

14:30-14:54 Features

14:54-15:00 Chinese Studio+Promo

[ <http://english.cri.cn/7146/2012/12/03/301s736373.htm> ]

- - - - -

"Voice of the South China Sea" - It is understood that the first multi-language broadcast of the South China Sea and the neighboring countries and regions services in China - the sound of the South China Sea China Radio International broadcasting on April 9, 2013, the use of Mandarin Chinese, English, Vietnamese, Malay, Filipino and Indonesian six languages, including through the FM, AM and shortwave broadcasts in three ways, and the South China Sea by the sound of websites, mobile clients simultaneously broadcast online. Program covering the island of Hainan, China's South China Sea and the Philippines, Vietnam, Indonesia and other neighboring countries, the South China Sea.

Dave - there is audio streaming of FM 101.0 as follows, but when I listened was not "Voice of the South China Sea." Need to listen in when they are actually broadcasting, whenever that is?

<https://translate.google.com/translate?hl=en&sl=zh-CN&tl=en&u=http%3A%2F%2Fradio.weibo.com%2Fchina%2Ffm1010>

Perhaps "Voice of the South China Sea" presently only on the following stations?

Hainan three Shashi : FM 101.0

Guangdong Province, Guangzhou City : AM 927

Hainan Qionghai : FM 102.0

<http://translate.google.com/translate?hl=en&sl=zh-CN&u=http://gb.cri.cn/42071/2013/11/21/6071s4330559.htm&prev=/search%3Fq%3D%25E4%25B8%25AD%25E5%259B%25BD%25E5%259B%25BD%25E9%2599%2585%25E5%25B9%25BF%25E6%2592%25AD%25E7%2594%25B5%25E5%258F%25B0%25E5%258D%2597%25E6%25B5%25B7%25E4%25B9%258B%25E5%25A3%25B0%26biw%3D1600%26bih%3D774>  
(Ron Howard, San Francisco, Dec 14, WORLD OF RADIO 1700, DX LISTENING DIGEST)

\*\* CHINA. Re 13-50: ``But, but, the complete CRI B-13 schedule in 13-49 does not show anything on SW in Ukrainian (gh, DXLD)``

CRI launches Ukrainian-language online station

[http://europe.chinadaily.com.cn/china/2013-12/05/content\\_17155210.htm](http://europe.chinadaily.com.cn/china/2013-12/05/content_17155210.htm)

Updated: 2013-12-05 20:36 By Mo Jingxi (chinadaily.com.cn)

China Radio International opened its Ukrainian-language online radio station on Thursday. The station, the 19th created by CRI, aims to introduce Chinese history and culture as well as China's social and economic progress in the Ukrainian language. It also will cover the lives of Ukrainians in China.

Visiting Ukrainian President Viktor Yanukovych attended the launching ceremony. Yanukovych congratulated CRI on the station's launch and highlighted Chinese media's efforts to deepen the friendship between Ukrainian and Chinese people over the past years.

The ceremony also marks the fifth anniversary of CRI's Ukrainian-language website, the first of its kind in China.

<http://ukrainian.cri.cn/>

Since the establishment of the website in 2008, the Ukraine-China relationship has witnessed rapid growth and become a strategic partnership, Yanukovych said. Achievements have been made in bilateral cooperation in various fields, including politics, trade and

economy, and people-to-people exchanges.î

He added: îWith the efforts of CRI's Ukrainian experts, a bilingual book about Chinese history will soon be published. I believe the book will be widely welcomed by the Ukrainian people.î

Wang Gengnian, director-general of the CRI, said that the Ukrainian-language website has become an important platform to enhance mutual understanding between the two peoples since China and Ukraine established diplomatic relations more than two decades ago. îThe CRI is ready to make more efforts to push forward the bilateral ties through the Ukrainian programs,î Wang said (via Dr Hansjoerg Biener, WORLD OF RADIO 1700, DXLD)

\*\* CHINA [and non]. Winter B-13 shortwave schedule of China National Radio (CNR) and People's Broadcasting Station (PBS):

[NOTE: Extremely long, 1840 lines, but evidently does NOT include numerous other CNR1 broadcasts whose purpose is jamming other stations! in every case target is ``to CHN'', deleted below --- gh]

0000-0030	6040	BEI	100	kW	/	180	deg	Chinese CNR-2
0000-0030	7275	BEI	100	kW	/	251	deg	Chinese CNR-1
0000-0030	7335	BJI	100	kW	/	255	deg	Chinese CNR-2
0000-0100	3900	HLR	010	kW	/	non-dir		Chinese PBS Hulun Buir
0000-0100	3950	URU	100	kW	/	non-dir		Chinese PBS Xinjiang
0000-0100	3990	LAN	050	kW	/	non-dir		Chinese PBS Gannan
0000-0100	3990	URU	100	kW	/	non-dir		Uyghur PBS Xinjiang
0000-0100	4500	URU	050	kW	/	non-dir		Mongolian PBS Xinjiang
0000-0100	4750	HLR	010	kW	/	non-dir		Chinese CNR-1
0000-0100	4750	XIN	050	kW	/	270	deg	Chinese PBS Qinghai
0000-0100	4800	GEM	100	kW	/	non-dir		Chinese CNR-1
0000-0100	4820	LHA	100	kW	/	non-dir		Chinese PBS Xizang
0000-0100	4850	URU	100	kW	/	non-dir		Kazakh PBS Xinjiang
0000-0100	4905	LHA	100	kW	/	non-dir		Tibetan PBS Xizang
0000-0100	4920	LHA	100	kW	/	non-dir		Tibetan PBS Xizang
0000-0100	4980	URU	050	kW	/	230	deg	Uyghur PBS Xinjiang
0000-0100	5060	URU	050	kW	/	230	deg	Chinese PBS Xinjiang
0000-0100	5935	LHA	100	kW	/	085	deg	Chinese PBS Xizang
0000-0100	5945	BEI	100	kW	/	222	deg	Chinese CNR-1
0000-0100	5955	BEI	100	kW	/	015	deg	Mongolian CNR-8
0000-0100	5960	URU	100	kW	/	non-dir		Chinese PBS Xizang
0000-0100	5990	XIN	050	kW	/	206	deg	Tibetan PBS Qinghai
0000-0100	6000	BEI	100	kW	/	non-dir		Chinese CNR-1
0000-0100	6015	URU	100	kW	/	non-dir		Kazakh PBS Xinjiang
0000-0100	6025	LHA	100	kW	/	268	deg	Tibetan PBS Xizang
0000-0100	6035	KUN	050	kW	/	147	deg	Vietnamese PBS Yunnan

0000-0100	6040	HUH	050	kW	/	263	deg	Mongolian PBS Nei Menggu
0000-0100	6050	LHA	100	kW	/	290	deg	Chinese PBS Xizang
0000-0100	6060	CDU	050	kW	/	358	deg	Tibetan PBS Sichuan 2
0000-0100	6080	GEM	100	kW	/	236	deg	Chinese CNR-1
0000-0100	6080	HLR	010	kW	/	non-dir		Mongolian PBS Hulun Buir
0000-0100	6090	GEM	100	kW	/	172	deg	Chinese CNR-2
0000-0100	6110	LHA	100	kW	/	220	deg	Tibetan PBS Xizang
0000-0100	6120	URU	100	kW	/	non-dir		Uyghur PBS Xinjiang
0000-0100	6125	SZG	100	kW	/	217	deg	Chinese CNR-1
0000-0100	6130	LHA	100	kW	/	290	deg	Tibetan PBS Xizang
0000-0100	6145	XIN	050	kW	/	270	deg	Chinese PBS Qinghai
0000-0100	6155	BEI	150	kW	/	non-dir		Chinese CNR-2
0000-0100	6165	BEI	100	kW	/	163	deg	Amoy CNR-6
0000-0100	6190	URU	050	kW	/	non-dir		Mongolian PBS Xinjiang
0000-0100	6200	LHA	100	kW	/	085	deg	Tibetan PBS Xizang
0000-0100	7205	URU	100	kW	/	230	deg	Uyghur PBS Xinjiang
0000-0100	7220	GEM	100	kW	/	non-dir		Chinese CNR-2
0000-0100	7225	CDU	050	kW	/	non-dir		Tibetan PBS Sichuan 2
0000-0100	7230	XIA	150	kW	/	non-dir		Chinese CNR-1
0000-0100	7240	LHA	100	kW	/	290	deg	Chinese PBS Xizang
0000-0100	7245	BEI	150	kW	/	non-dir		Chinese CNR-2
0000-0100	7255	LHA	100	kW	/	085	deg	Tibetan PBS Xizang
0000-0100	7255	BJI	100	kW	/	135	deg	Chinese CNR-2
0000-0100	7270	HUH	050	kW	/	052	deg	Mongolian PBS Nei Menggu
0000-0100	7290	BEI	100	kW	/	222	deg	Chinese CNR-1
0000-0100	7310	URU	100	kW	/	230	deg	Chinese PBS Xinjiang
0000-0100	7315	XIA	150	kW	/	non-dir		Chinese CNR-2
0000-0100	7385	LHA	100	kW	/	290	deg	Tibetan PBS Xizang
0000-0100	7420	HUH	050	kW	/	263	deg	Chinese PBS Nei Menggu
0000-0100	7445	BEI	100	kW	/	286	deg	Mongolian CNR-8
0000-0100	7450	LHA	100	kW	/	085	deg	Chinese PBS Xizang
0000-0100	9455	LIN	100	kW	/	298	deg	Chinese CNR-1
0000-0100	9480	BJI	100	kW	/	255	deg	Tibetan CNR-8
0000-0100	9500	SZG	100	kW	/	165	deg	Chinese CNR-1
0000-0100	9520	HOH	050	kW	/	036	deg	Chinese PBS Nei Menggu
0000-0100	9530	BJI	100	kW	/	255	deg	Tibetan CNR-11
0000-0100	9655	LIN	100	kW	/	298	deg	Uyghur CNR-13
0000-0100	9665	BEI	100	kW	/	163	deg	Chinese CNR-5
0000-0100	9675	BEI	100	kW	/	037	deg	Chinese CNR-1
0000-0100	9685	BEI	100	kW	/	163	deg	Chinese CNR-5
0000-0100	9720	BJI	150	kW	/	non-dir		Chinese CNR-2
0000-0100	9730	BEI	100	kW	/	163	deg	Amoy CNR-6
0000-0100	9750	HOH	050	kW	/	036	deg	Mongolian PBS Nei Menggu
0000-0100	9755	BJI	100	kW	/	255	deg	Chinese CNR-2
0000-0100	9775	BEI	150	kW	/	270	deg	Chinese CNR-2
0000-0100	9820	XIA	100	kW	/	290	deg	Chinese CNR-2
0000-0100	9830	BEI	100	kW	/	175	deg	Chinese CNR-1
0000-0100	9845	BEI	100	kW	/	251	deg	Chinese CNR-1

0000-0100	9890	LIN	100	kW	/	286	deg	Uyghur	CNR-13
0000-0100	11610	BEI	150	kW	/	270	deg	Chinese	CNR-2
0000-0100	11630	LIN	100	kW	/	286	deg	Chinese	CNR-1
0000-0100	11670	BEI	100	kW	/	220	deg	Chinese	CNR-2
0000-0100	11685	BJI	100	kW	/	255	deg	Tibetan	CNR-11
0000-0100	11710	BEI	100	kW	/	285	deg	Chinese	CNR-1
0000-0100	11720	SZG	100	kW	/	217	deg	Chinese	CNR-1
0000-0100	11740	LIN	100	kW	/	286	deg	Chinese	CNR-2
0000-0100	11750	SZG	100	kW	/	037	deg	Chinese	CNR-1
0000-0100	11760	SZG	100	kW	/	165	deg	Chinese	CNR-1
0000-0100	11835	XIA	150	kW	/	257	deg	Chinese	CNR-2
0000-0100	11925	LIN	100	kW	/	286	deg	Chinese	CNR-1
0000-0100	11935	BEI	100	kW	/	163	deg	Chinese	CNR-5
0000-0100	11960	BEI	100	kW	/	037	deg	Chinese	CNR-1
0000-0100	12045	BEI	100	kW	/	285	deg	Chinese	CNR-1
0000-0100	13610	NNN	150	kW	/	155	deg	Chinese	CNR-1
0000-0100	15550	BEI	100	kW	/	175	deg	Chinese	CNR-1
0000-0100	17625	BEI	150	kW	/	163	deg	Chinese	CNR-2
0030-0100	11800	BEI	150	kW	/	180	deg	Chinese	CNR-2
0030-0100	11915	BJI	100	kW	/	255	deg	Chinese	CNR-2
0030-0100	15380	BEI	100	kW	/	251	deg	Chinese	CNR-1
0100-0130	6035	KUN	050	kW	/	147	deg	Chinese	PBS Yunnan
0100-0130	6060	CDU	050	kW	/	358	deg	Tibetan	PBS Sichuan 2
0100-0130	7225	CDU	050	kW	/	non-dir		Tibetan	PBS Sichuan 2
0100-0130	7290	BEI	100	kW	/	222	deg	Chinese	CNR-1
0100-0130	11710	BEI	100	kW	/	285	deg	Chinese	CNR-1
0100-0200	3900	HLR	010	kW	/	non-dir		Chinese	PBS Hulun Buir
0100-0200	3950	URU	100	kW	/	non-dir		Chinese	PBS Xinjiang
0100-0200	3990	URU	100	kW	/	non-dir		Uyghur	PBS Xinjiang
0100-0200	4500	URU	050	kW	/	non-dir		Mongolian	PBS Xinjiang
0100-0200	4750	HLR	010	kW	/	non-dir		Chinese	CNR-1
0100-0200	4750	XIN	050	kW	/	270	deg	Chinese	PBS Qinghai
0100-0200	4800	GEM	100	kW	/	non-dir		Chinese	CNR-1
0100-0200	4820	LHA	100	kW	/	non-dir		Chinese	PBS Xizang
0100-0200	4850	URU	100	kW	/	non-dir		Kazakh	PBS Xinjiang
0100-0200	4905	LHA	100	kW	/	non-dir		Tibetan	PBS Xizang
0100-0200	4920	LHA	100	kW	/	non-dir		Tibetan	PBS Xizang
0100-0200	4980	URU	050	kW	/	230	deg	Uyghur	PBS Xinjiang
0100-0200	5060	URU	050	kW	/	230	deg	Chinese	PBS Xinjiang
0100-0200	5935	LHA	100	kW	/	085	deg	Chinese	PBS Xizang
0100-0200	5960	URU	100	kW	/	non-dir		Chinese	PBS Xizang
0100-0200	5990	XIN	050	kW	/	206	deg	Tibetan	PBS Qinghai
0100-0200	6015	URU	100	kW	/	non-dir		Kazakh	PBS Xinjiang
0100-0200	6025	LHA	100	kW	/	268	deg	Tibetan	PBS Xizang
0100-0200	6040	HUH	050	kW	/	263	deg	Mongolian	PBS Nei Menggu



0100-0200	6050	LHA	100	kW	/	290	deg	Chinese PBS Xizang
0100-0200	6080	HLR	010	kW	/	non-dir		Mongolian PBS Hulun Buir
0100-0200	6090	GEM	100	kW	/	172	deg	Chinese CNR-2
0100-0200	6110	LHA	100	kW	/	220	deg	Tibetan PBS Xizang
0100-0200	6120	URU	100	kW	/	non-dir		Uyghur PBS Xinjiang
0100-0200	6130	LHA	100	kW	/	290	deg	Tibetan PBS Xizang
0100-0200	6145	XIN	050	kW	/	270	deg	Chinese PBS Qinghai
0100-0200	6190	URU	050	kW	/	non-dir		Mongolian PBS Xinjiang
0100-0200	6200	LHA	100	kW	/	085	deg	Tibetan PBS Xizang
0100-0200	7205	URU	100	kW	/	230	deg	Uyghur PBS Xinjiang
0100-0200	7220	GEM	100	kW	/	non-dir		Chinese CNR-2
0100-0200	7230	XIA	150	kW	/	non-dir		Chinese CNR-1
0100-0200	7240	LHA	100	kW	/	290	deg	Chinese PBS Xizang
0100-0200	7255	LHA	100	kW	/	085	deg	Tibetan PBS Xizang
0100-0200	7270	HUH	050	kW	/	052	deg	Mongolian PBS Nei Menggu
0100-0200	7310	URU	100	kW	/	230	deg	Chinese PBS Xinjiang
0100-0200	7385	LHA	100	kW	/	290	deg	Tibetan PBS Xizang
0100-0200	7420	HUH	050	kW	/	263	deg	Chinese PBS Nei Menggu
0100-0200	7450	LHA	100	kW	/	085	deg	Chinese PBS Xizang
0100-0200	9455	LIN	100	kW	/	298	deg	Kazakh CNR-8
0100-0200	9500	SZG	100	kW	/	165	deg	Chinese CNR-1
0100-0200	9520	HOH	050	kW	/	036	deg	Chinese PBS Nei Menggu
0100-0200	9530	BJI	100	kW	/	255	deg	Tibetan CNR-11
0100-0200	9620	BEI	150	kW	/	non-dir		Chinese CNR-2
0100-0200	9630	GEM	100	kW	/	236	deg	Chinese CNR-1
0100-0200	9645	BEI	100	kW	/	non-dir		Chinese CNR-1
0100-0200	9675	BEI	100	kW	/	037	deg	Chinese CNR-1
0100-0200	9685	BEI	100	kW	/	163	deg	Chinese CNR-5
0100-0200	9720	BJI	150	kW	/	non-dir		Chinese CNR-2
0100-0200	9750	HOH	050	kW	/	036	deg	Mongolian PBS Nei Menggu
0100-0200	9755	BJI	100	kW	/	255	deg	Chinese CNR-2
0100-0200	9775	BEI	150	kW	/	270	deg	Chinese CNR-2
0100-0200	9810	BJI	100	kW	/	135	deg	Chinese CNR-2
0100-0200	9830	BEI	100	kW	/	175	deg	Chinese CNR-1
0100-0200	9890	LIN	100	kW	/	286	deg	Uyghur CNR-13
0100-0200	11610	BEI	150	kW	/	270	deg	Chinese CNR-2
0100-0200	11620	BEI	100	kW	/	163	deg	Chinese CNR-5
0100-0200	11630	LIN	100	kW	/	286	deg	Kazakh CNR-8
0100-0200	11660	XIA	150	kW	/	non-dir		Chinese CNR-2
0100-0200	11670	BEI	100	kW	/	220	deg	Chinese CNR-2
0100-0200	11685	BJI	100	kW	/	255	deg	Tibetan CNR-11
0100-0200	11720	SZG	100	kW	/	217	deg	Chinese CNR-1
0100-0200	11750	SZG	100	kW	/	037	deg	Chinese CNR-1
0100-0200	11760	SZG	100	kW	/	165	deg	Chinese CNR-1
0100-0200	11800	BEI	150	kW	/	180	deg	Chinese CNR-2
0100-0200	11810	LIN	100	kW	/	286	deg	Kazakh CNR-8
0100-0200	11835	XIA	150	kW	/	257	deg	Chinese CNR-2
0100-0200	11845	XIA	150	kW	/	290	deg	Chinese CNR-2

0100-0200 11905 BEI 100 kW / 163 deg Amoy CNR-6  
 0100-0200 11915 BJI 100 kW / 255 deg Chinese CNR-2  
 0100-0200 11925 LIN 100 kW / 286 deg Chinese CNR-1  
 0100-0200 11935 BEI 100 kW / 163 deg Chinese CNR-5  
 0100-0200 11960 BEI 100 kW / 037 deg Chinese CNR-1  
 0100-0200 12045 BEI 100 kW / 285 deg Chinese CNR-1  
 0100-0200 13610 NNN 150 kW / 155 deg Chinese CNR-1  
 0100-0200 15370 SZG 100 kW / 217 deg Chinese CNR-1  
 0100-0200 15380 BEI 100 kW / 251 deg Chinese CNR-1  
 0100-0200 15390 LIN 100 kW / 298 deg Uyghur CNR-13  
 0100-0200 15480 BEI 100 kW / 222 deg Chinese CNR-1  
 0100-0200 15500 BEI 150 kW / 180 deg Chinese CNR-2  
 0100-0200 15550 BEI 100 kW / 175 deg Chinese CNR-1  
 0100-0200 15570 BJI 100 kW / 255 deg Tibetan CNR-11  
 0100-0200 15670 BEI 100 kW / 283 deg Kazakh CNR-8  
 0100-0200 15710 BEI 100 kW / 163 deg Amoy CNR-6  
 0100-0200 15770 LIN 100 kW / 286 deg Chinese CNR-2  
 0100-0200 17550 BEI 100 kW / 251 deg Chinese CNR-1  
 0100-0200 17595 SZG 100 kW / 217 deg Chinese CNR-1  
 0100-0200 17625 BEI 150 kW / 163 deg Chinese CNR-2

0130-0200 17605 BEI 100 kW / 285 deg Chinese CNR-1  
 0130-0200 17890 BEI 100 kW / 222 deg Chinese CNR-1

0200-0300 3900 HLR 010 kW / non-dir Chinese PBS Hulun Buir  
 0200-0300 3950 URU 100 kW / non-dir Chinese PBS Xinjiang  
 0200-0300 3990 URU 100 kW / non-dir Uyghur PBS Xinjiang  
 0200-0300 4500 URU 050 kW / non-dir Mongolian PBS Xinjiang  
 0200-0300 4750 HLR 010 kW / non-dir Chinese CNR-1  
 0200-0300 4800 GEM 100 kW / non-dir Chinese CNR-1  
 0200-0300 4820 LHA 100 kW / non-dir Chinese PBS Xizang  
 0200-0300 4850 URU 100 kW / non-dir Kazakh PBS Xinjiang  
 0200-0300 4905 LHA 100 kW / non-dir Tibetan PBS Xizang  
 0200-0300 4920 LHA 100 kW / non-dir Tibetan PBS Xizang  
 0200-0300 4980 URU 050 kW / 230 deg Uyghur PBS Xinjiang  
 0200-0300 5060 URU 050 kW / 230 deg Chinese PBS Xinjiang  
 0200-0300 5935 LHA 100 kW / 085 deg Chinese PBS Xizang  
 0200-0300 5960 URU 100 kW / non-dir Chinese PBS Xizang  
 0200-0300 5990 XIN 050 kW / 206 deg Tibetan PBS Qinghai  
 0200-0300 6015 URU 100 kW / non-dir Kazakh PBS Xinjiang  
 0200-0300 6025 LHA 100 kW / 268 deg Tibetan PBS Xizang  
 0200-0300 6040 HUH 050 kW / 263 deg Mongolian PBS Nei Menggu  
 0200-0300 6050 LHA 100 kW / 290 deg Chinese PBS Xizang  
 0200-0300 6080 HLR 010 kW / non-dir Mongolian PBS Hulun Buir  
 0200-0300 6090 GEM 100 kW / 172 deg Chinese CNR-2  
 0200-0300 6110 LHA 100 kW / 220 deg Tibetan PBS Xizang  
 2200-0300 6120 URU 100 kW / non-dir Uyghur PBS Xinjiang  
 0200-0300 6130 LHA 100 kW / 290 deg Tibetan PBS Xizang

0200-0300	6145	XIN	050	kW	/	270	deg	Chinese PBS Qinghai
0200-0300	6190	URU	050	kW	/	non-dir		Mongolian PBS Xinjiang
0200-0300	6200	LHA	100	kW	/	085	deg	Tibetan PBS Xizang
0200-0300	7205	URU	100	kW	/	230	deg	Uyghur PBS Xinjiang
0200-0300	7220	GEM	100	kW	/	non-dir		Chinese CNR-2
0200-0300	7230	XIA	150	kW	/	non-dir		Chinese CNR-1
0200-0300	7240	LHA	100	kW	/	290	deg	Chinese PBS Xizang
0200-0300	7255	LHA	100	kW	/	085	deg	Tibetan PBS Xizang
0200-0300	7270	HUH	050	kW	/	052	deg	Mongolian PBS Nei Menggu
0200-0300	7310	URU	100	kW	/	230	deg	Chinese PBS Xinjiang
0200-0300	7420	HUH	050	kW	/	263	deg	Chinese PBS Nei Menggu
0200-0300	7450	LHA	100	kW	/	085	deg	Chinese PBS Xizang
0200-0300	9490	LHA	100	kW	/	085	deg	Tibetan PBS Xizang
0200-0300	9500	SZG	100	kW	/	165	deg	Chinese CNR-1
0200-0300	9520	HOH	050	kW	/	036	deg	Chinese PBS Nei Menggu
0200-0300	9530	BJI	100	kW	/	255	deg	Tibetan CNR-11
0200-0300	9620	BEI	150	kW	/	non-dir		Chinese CNR-2
0200-0300	9630	GEM	100	kW	/	236	deg	Chinese CNR-1
0200-0300	9645	BEI	100	kW	/	non-dir		Chinese CNR-1
0200-0300	9675	BEI	100	kW	/	037	deg	Chinese CNR-1
0200-0300	9685	BEI	100	kW	/	163	deg	Chinese CNR-5
0200-0300	9720	BJI	150	kW	/	non-dir		Chinese CNR-2
0200-0300	9750	HOH	050	kW	/	036	deg	Mongolian PBS Nei Menggu
0200-0300	9780	XIN	050	kW	/	270	deg	Chinese PBS Qinghai
0200-0300	9810	BJI	100	kW	/	135	deg	Chinese CNR-2
0200-0300	11610	BEI	150	kW	/	270	deg	Chinese CNR-2
0200-0300	11620	BEI	100	kW	/	163	deg	Chinese CNR-5
0200-0300	11630	LIN	100	kW	/	286	deg	Kazakh CNR-8
0200-0300	11660	XIA	150	kW	/	non-dir		Chinese CNR-2
0200-0300	11670	BEI	100	kW	/	220	deg	Chinese CNR-2
0200-0300	11685	BJI	100	kW	/	255	deg	Tibetan CNR-11
0200-0300	11720	SZG	100	kW	/	217	deg	Chinese CNR-1
0200-0300	11750	SZG	100	kW	/	037	deg	Chinese CNR-1
0200-0300	11760	SZG	100	kW	/	165	deg	Chinese CNR-1
0200-0300	11800	BEI	150	kW	/	180	deg	Chinese CNR-2
0200-0300	11810	BEI	100	kW	/	283	deg	Kazakh CNR-8
0200-0300	11835	XIA	150	kW	/	257	deg	Chinese CNR-2
0200-0300	11845	XIA	150	kW	/	290	deg	Chinese CNR-2
0200-0300	11905	BEI	100	kW	/	163	deg	Amoy CNR-6
0200-0300	11915	BJI	100	kW	/	255	deg	Chinese CNR-2
0200-0300	11935	BEI	100	kW	/	163	deg	Chinese CNR-5
0200-0300	11960	BEI	100	kW	/	037	deg	Chinese CNR-1
0200-0300	12045	BEI	100	kW	/	285	deg	Chinese CNR-1
0200-0300	12055	LIN	100	kW	/	298	deg	Kazakh CNR-8
0200-0300	12080	BJI	100	kW	/	255	deg	Chinese CNR-2
0200-0300	13610	NNN	150	kW	/	155	deg	Chinese CNR-1
0200-0300	13700	LIN	100	kW	/	286	deg	Uyghur CNR-13
0200-0300	15270	BEI	150	kW	/	270	deg	Chinese CNR-2

0200-0300 15370 SZG 100 kW / 217 deg Chinese CNR-1  
 0200-0300 15380 BEI 100 kW / 251 deg Chinese CNR-1  
 0200-0300 15390 LIN 100 kW / 298 deg Uyghur CNR-13  
 0200-0300 15480 BEI 100 kW / 222 deg Chinese CNR-1  
 0200-0300 15500 BEI 150 kW / 180 deg Chinese CNR-2  
 0200-0300 15550 BEI 100 kW / 175 deg Chinese CNR-1  
 0200-0300 15570 BJI 100 kW / 255 deg Tibetan CNR-11  
 0200-0300 15670 BEI 100 kW / 283 deg Kazakh CNR-8  
 0200-0300 15710 BEI 100 kW / 163 deg Amoy CNR-6  
 0200-0300 15770 LIN 100 kW / 286 deg Chinese CNR-2  
 0200-0300 17550 BEI 100 kW / 251 deg Chinese CNR-1  
 0200-0300 17565 BEI 100 kW / 175 deg Chinese CNR-1  
 0200-0300 17580 LIN 100 kW / 286 deg Chinese CNR-1  
 0200-0300 17595 SZG 100 kW / 217 deg Chinese CNR-1  
 0200-0300 17605 BEI 100 kW / 285 deg Chinese CNR-1  
 0200-0300 17625 BEI 150 kW / 163 deg Chinese CNR-2  
 0200-0300 17890 BEI 100 kW / 222 deg Chinese CNR-1

0230-0300 9560 URU 100 kW / non-dir Uyghur PBS Xinjiang  
 0230-0300 9850 XIN 050 kW / 206 deg Tibetan PBS Qinghai

0300-0330 4500 URU 050 kW / non-dir Mongolian PBS Xinjiang  
 0300-0330 4850 URU 100 kW / non-dir Kazakh PBS Xinjiang  
 0300-0330 6015 URU 100 kW / non-dir Kazakh PBS Xinjiang

0300-0400 3900 HLR 010 kW / non-dir Chinese PBS Hulun Buir  
 0300-0400 4750 HLR 010 kW / non-dir Chinese CNR-1  
 0300-0400 4800 GEM 100 kW / non-dir Chinese CNR-1  
 0300-0400 4820 LHA 100 kW / non-dir Chinese PBS Xizang  
 0300-0400 4905 LHA 100 kW / non-dir Tibetan PBS Xizang  
 0300-0400 4920 LHA 100 kW / non-dir Tibetan PBS Xizang  
 0300-0400 5935 LHA 100 kW / 085 deg Chinese PBS Xizang  
 0300-0400 5960 URU 100 kW / non-dir Chinese PBS Xizang  
 0300-0400 5990 XIN 050 kW / 206 deg Tibetan PBS Qinghai  
 0300-0400 6025 LHA 100 kW / 268 deg Tibetan PBS Xizang  
 0300-0400 6040 HUH 050 kW / 263 deg Mongolian PBS Nei Menggu  
 0300-0400 6050 LHA 100 kW / 290 deg Chinese PBS Xizang  
 0300-0400 6080 HLR 010 kW / non-dir Mongolian PBS Hulun Buir  
 0300-0400 6110 LHA 100 kW / 220 deg Tibetan PBS Xizang  
 0300-0400 6130 LHA 100 kW / 290 deg Tibetan PBS Xizang  
 0300-0400 6145 XIN 050 kW / 270 deg Chinese PBS Qinghai  
 0300-0400 6200 LHA 100 kW / 085 deg Tibetan PBS Xizang  
 0300-0400 7220 GEM 100 kW / non-dir Chinese CNR-2  
 0300-0400 7230 XIA 150 kW / non-dir Chinese CNR-1  
 0300-0400 7260 URU 100 kW / non-dir Chinese PBS Xinjiang  
 0300-0400 7270 HUH 050 kW / 052 deg Mongolian PBS Nei Menggu  
 0300-0400 7275 URU 100 kW / non-dir Uyghur PBS Xinjiang  
 0300-0400 7420 HUH 050 kW / 263 deg Chinese PBS Nei Menggu

0300-0400	9490	LHA	100	kW	/	085	deg	Tibetan PBS Xizang
0300-0400	9500	SZG	100	kW	/	165	deg	Chinese CNR-1
0300-0400	9520	HOH	050	kW	/	036	deg	Chinese PBS Nei Menggu
0300-0400	9530	BJI	100	kW	/	255	deg	Tibetan CNR-11
0300-0400	9560	URU	100	kW	/	non-dir		Uyghur PBS Xinjiang
0300-0400	9570	GEM	100	kW	/	172	deg	Chinese CNR-2
0300-0400	9600	URU	100	kW	/	230	deg	Chinese PBS Xinjiang
0300-0400	9610	BEI	100	kW	/	286	deg	Mongolian CNR-8
0300-0400	9620	BEI	150	kW	/	non-dir		Chinese CNR-2
0300-0400	9630	GEM	100	kW	/	236	deg	Chinese CNR-1
0300-0400	9645	BEI	100	kW	/	non-dir		Chinese CNR-1
0300-0400	9675	BEI	100	kW	/	037	deg	Chinese CNR-1
0300-0400	9685	BEI	100	kW	/	163	deg	Chinese CNR-5
0300-0400	9720	BJI	150	kW	/	non-dir		Chinese CNR-2
0300-0400	9750	HOH	050	kW	/	036	deg	Mongolian PBS Nei Menggu
0300-0400	9780	XIN	050	kW	/	270	deg	Chinese PBS Qinghai
0300-0400	9810	BJI	100	kW	/	135	deg	Chinese CNR-2
0300-0400	9850	XIN	050	kW	/	206	deg	Tibetan PBS Qinghai
0300-0400	11610	BEI	150	kW	/	270	deg	Chinese CNR-2
0300-0400	11620	BEI	100	kW	/	163	deg	Chinese CNR-5
0300-0400	11630	LIN	100	kW	/	286	deg	Chinese CNR-1
0300-0400	11660	XIA	150	kW	/	non-dir		Chinese CNR-2
0300-0400	11670	BEI	100	kW	/	220	deg	Chinese CNR-2
0300-0400	11685	BJI	100	kW	/	255	deg	Tibetan CNR-11
0300-0400	11720	SZG	100	kW	/	217	deg	Chinese CNR-1
0300-0400	11750	SZG	100	kW	/	037	deg	Chinese CNR-1
0300-0400	11760	SZG	100	kW	/	165	deg	Chinese CNR-1
0300-0400	11770	URU	050	kW	/	230	deg	Chinese PBS Xinjiang
0300-0400	11800	BEI	150	kW	/	180	deg	Chinese CNR-2
0300-0400	11815	BEI	100	kW	/	015	deg	Mongolian CNR-8
0300-0400	11835	XIA	150	kW	/	257	deg	Chinese CNR-2
0300-0400	11845	XIA	150	kW	/	290	deg	Chinese CNR-2
0300-0400	11860	LHA	100	kW	/	085	deg	Chinese PBS Xizang
0300-0400	11885	URU	050	kW	/	non-dir		Uyghur PBS Xinjiang
0300-0400	11905	BEI	100	kW	/	163	deg	Amoy CNR-6
0300-0400	11915	BJI	100	kW	/	255	deg	Chinese CNR-2
0300-0400	11935	BEI	100	kW	/	163	deg	Chinese CNR-5
0300-0400	11950	LHA	100	kW	/	290	deg	Chinese PBS Xizang
0300-0400	11960	BEI	100	kW	/	037	deg	Chinese CNR-1
0300-0400	12045	BEI	100	kW	/	285	deg	Chinese CNR-1
0300-0400	12055	LIN	100	kW	/	298	deg	Chinese CNR-1
0300-0400	12080	BJI	100	kW	/	255	deg	Chinese CNR-2
0300-0400	13610	NNN	150	kW	/	155	deg	Chinese CNR-1
0300-0400	13670	URU	050	kW	/	230	deg	Uyghur PBS Xinjiang
0300-0400	13700	LIN	100	kW	/	286	deg	Uyghur CNR-13
0300-0400	15270	BEI	150	kW	/	270	deg	Chinese CNR-2
0300-0400	15370	SZG	100	kW	/	217	deg	Chinese CNR-1
0300-0400	15380	BEI	100	kW	/	251	deg	Chinese CNR-1

0300-0400 15390 LIN 100 kW / 298 deg Uyghur CNR-13  
 0300-0400 15480 BEI 100 kW / 222 deg Chinese CNR-1  
 0300-0400 15500 BEI 150 kW / 180 deg Chinese CNR-2  
 0300-0400 15550 BEI 100 kW / 175 deg Chinese CNR-1  
 0300-0400 15570 BJI 100 kW / 255 deg Tibetan CNR-11  
 0300-0400 15710 BEI 100 kW / 163 deg Amoy CNR-6  
 0300-0400 15770 LIN 100 kW / 286 deg Chinese CNR-2  
 0300-0400 17550 BEI 100 kW / 251 deg Chinese CNR-1  
 0300-0400 17565 BEI 100 kW / 175 deg Chinese CNR-1  
 0300-0400 17580 LIN 100 kW / 286 deg Chinese CNR-1  
 0300-0400 17595 SZG 100 kW / 217 deg Chinese CNR-1  
 0300-0400 17605 BEI 100 kW / 285 deg Chinese CNR-1  
 0300-0400 17625 BEI 150 kW / 163 deg Chinese CNR-2  
 0300-0400 17890 BEI 100 kW / 222 deg Chinese CNR-1

0330-0400 7295 URU 050 kW / 247 deg Kyrgyz PBS Xinjiang  
 0330-0400 7340 URU 100 kW / non-dir Kazakh PBS Xinjiang  
 0330-0400 9470 URU 100 kW / non-dir Kazakh PBS Xinjiang  
 0330-0400 9705 URU 100 kW / 247 deg Kyrgyz PBS Xinjiang

0400-0500 3900 HLR 010 kW / non-dir Chinese PBS Hulun Buir  
 0400-0500 3990 LAN 050 kW / non-dir Tibetan PBS Gannan  
 0400-0500 4750 HLR 010 kW / non-dir Chinese CNR-1  
 0400-0500 4800 GEM 100 kW / non-dir Chinese CNR-1  
 0400-0500 4820 LHA 100 kW / non-dir Chinese PBS Xizang  
 0400-0500 4905 LHA 100 kW / non-dir Tibetan PBS Xizang  
 0400-0500 4920 LHA 100 kW / non-dir Tibetan PBS Xizang  
 0400-0500 5935 LHA 100 kW / 085 deg Chinese PBS Xizang  
 0400-0500 5960 URU 100 kW / non-dir Chinese PBS Xizang  
 0400-0500 5990 XIN 050 kW / 206 deg Tibetan PBS Qinghai  
 0400-0500 6025 LHA 100 kW / 268 deg Tibetan PBS Xizang  
 0400-0500 6040 HUH 050 kW / 263 deg Mongolian PBS Nei Menggu  
 0400-0500 6050 LHA 100 kW / 290 deg Chinese PBS Xizang  
 0400-0500 6080 HLR 010 kW / non-dir Mongolian PBS Hulun Buir  
 0400-0500 6110 LHA 100 kW / 220 deg Tibetan PBS Xizang  
 0400-0500 6130 LHA 100 kW / 290 deg Tibetan PBS Xizang  
 0400-0500 6145 XIN 050 kW / 270 deg Chinese PBS Qinghai  
 0400-0500 6200 LHA 100 kW / 085 deg Tibetan PBS Xizang  
 0400-0500 7220 GEM 100 kW / non-dir Chinese CNR-2  
 0400-0500 7230 XIA 150 kW / non-dir Chinese CNR-1  
 0400-0500 7260 URU 100 kW / non-dir Chinese PBS Xinjiang  
 0400-0500 7270 HUH 050 kW / 052 deg Mongolian PBS Nei Menggu  
 0400-0500 7275 URU 100 kW / non-dir Uyghur PBS Xinjiang  
 0400-0500 7295 URU 050 kW / 247 deg Kyrgyz PBS Xinjiang  
 0400-0500 7340 URU 100 kW / non-dir Kazakh PBS Xinjiang  
 0400-0500 7420 HUH 050 kW / 263 deg Chinese PBS Nei Menggu  
 0400-0500 9440 BEI 100 kW / 063 deg Korean CNR-8  
 0400-0500 9470 URU 100 kW / non-dir Kazakh PBS Xinjiang

0400-0500	9490	LHA	100	kW	/	085	deg	Tibetan PBS Xizang
0400-0500	9500	SZG	100	kW	/	165	deg	Chinese CNR-1
0400-0500	9520	HOH	050	kW	/	036	deg	Chinese PBS Nei Menggu
0400-0500	9530	BJI	100	kW	/	255	deg	Tibetan CNR-11
0400-0500	9560	URU	100	kW	/	non-dir		Uyghur PBS Xinjiang
0400-0500	9570	GEM	100	kW	/	172	deg	Chinese CNR-2
0400-0500	9600	URU	100	kW	/	230	deg	Chinese PBS Xinjiang
0400-0500	9610	BEI	100	kW	/	063	deg	Korean CNR-8
0400-0500	9620	BEI	150	kW	/	non-dir		Chinese CNR-2
0400-0500	9630	GEM	100	kW	/	236	deg	Chinese CNR-1
0400-0500	9645	BEI	100	kW	/	non-dir		Chinese CNR-1
0400-0500	9675	BEI	100	kW	/	037	deg	Chinese CNR-1
0400-0500	9685	BEI	100	kW	/	163	deg	Chinese CNR-5
0400-0500	9780	XIN	050	kW	/	270	deg	Chinese PBS Qinghai
0400-0500	9705	URU	100	kW	/	247	deg	Kyrgyz PBS Xinjiang
0400-0500	9720	BJI	150	kW	/	non-dir		Chinese CNR-2
0400-0500	9750	HOH	050	kW	/	036	deg	Mongolian PBS Nei Menggu
0400-0500	9780	XIN	050	kW	/	270	deg	Chinese PBS Qinghai
0400-0500	9810	BJI	100	kW	/	135	deg	Chinese CNR-2
0400-0500	9850	XIN	050	kW	/	206	deg	Tibetan PBS Qinghai
0400-0500	11610	BEI	150	kW	/	270	deg	Chinese CNR-2
0400-0500	11620	BEI	100	kW	/	163	deg	Chinese CNR-5
0400-0500	11630	LIN	100	kW	/	286	deg	Chinese CNR-1
0400-0500	11660	XIA	150	kW	/	non-dir		Chinese CNR-2
0400-0500	11670	BEI	100	kW	/	220	deg	Chinese CNR-2
0400-0500	11685	BJI	100	kW	/	255	deg	Tibetan CNR-11
0400-0500	11720	SZG	100	kW	/	217	deg	Chinese CNR-1
0400-0500	11750	SZG	100	kW	/	037	deg	Chinese CNR-1
0400-0500	11760	SZG	100	kW	/	165	deg	Chinese CNR-1
0400-0500	11770	URU	050	kW	/	230	deg	Chinese PBS Xinjiang
0400-0500	11800	BEI	150	kW	/	180	deg	Chinese CNR-2
0400-0500	11835	XIA	150	kW	/	257	deg	Chinese CNR-2
0400-0500	11845	XIA	150	kW	/	290	deg	Chinese CNR-2
0400-0500	11860	LHA	100	kW	/	085	deg	Chinese PBS Xizang
0400-0500	11885	URU	050	kW	/	non-dir		Uyghur PBS Xinjiang
0400-0500	11905	BEI	100	kW	/	163	deg	Amoy CNR-6
0400-0500	11915	BJI	100	kW	/	255	deg	Chinese CNR-2
0400-0500	11935	BEI	100	kW	/	163	deg	Chinese CNR-5
0400-0500	11950	LHA	100	kW	/	290	deg	Chinese PBS Xizang
0400-0500	11960	BEI	100	kW	/	037	deg	Chinese CNR-1
0400-0500	12045	BEI	100	kW	/	285	deg	Chinese CNR-1
0400-0500	12055	LIN	100	kW	/	298	deg	Chinese CNR-1
0400-0500	12080	BJI	100	kW	/	255	deg	Chinese CNR-2
0400-0500	13610	NNN	150	kW	/	155	deg	Chinese CNR-1
0400-0500	13670	URU	050	kW	/	230	deg	Uyghur PBS Xinjiang
0400-0500	13700	LIN	100	kW	/	286	deg	Uyghur CNR-13
0400-0500	15270	BEI	150	kW	/	270	deg	Chinese CNR-2
0400-0500	15370	SZG	100	kW	/	217	deg	Chinese CNR-1

0400-0500	15380	BEI	100	kW	/	251	deg	Chinese	CNR-1
0400-0500	15390	LIN	100	kW	/	298	deg	Uyghur	CNR-13
0400-0500	15480	BEI	100	kW	/	222	deg	Chinese	CNR-1
0400-0500	15500	BEI	150	kW	/	180	deg	Chinese	CNR-2
0400-0500	15550	BEI	100	kW	/	175	deg	Chinese	CNR-1
0400-0500	15570	BJI	100	kW	/	255	deg	Tibetan	CNR-11
0400-0500	15710	BEI	100	kW	/	163	deg	Amoy	CNR-6
0400-0500	15770	LIN	100	kW	/	286	deg	Chinese	CNR-2
0400-0500	17550	BEI	100	kW	/	251	deg	Chinese	CNR-1
0400-0500	17565	BEI	100	kW	/	175	deg	Chinese	CNR-1
0400-0500	17580	LIN	100	kW	/	286	deg	Chinese	CNR-1
0400-0500	17595	SZG	100	kW	/	217	deg	Chinese	CNR-1
0400-0500	17605	BEI	100	kW	/	285	deg	Chinese	CNR-1
0400-0500	17625	BEI	150	kW	/	163	deg	Chinese	CNR-2
0400-0500	17890	BEI	100	kW	/	222	deg	Chinese	CNR-1
0500-0530	6080	HLR	010	kW	/	non-dir		Mongolian	PBS Hulun Buir
0500-0530	7295	URU	050	kW	/	247	deg	Kyrgyz	PBS Xinjiang
0500-0530	9705	URU	100	kW	/	247	deg	Kyrgyz	PBS Xinjiang
0500-0600	3900	HLR	010	kW	/	non-dir		Chinese	PBS Hulun Buir
0500-0600	3990	LAN	050	kW	/	non-dir		Tibetan	PBS Gannan
0500-0600	4750	HLR	010	kW	/	non-dir		Chinese	CNR-1
0500-0600	4800	GEM	100	kW	/	non-dir		Chinese	CNR-1
0500-0600	4820	LHA	100	kW	/	non-dir		Chinese	PBS Xizang
0500-0600	4905	LHA	100	kW	/	non-dir		Tibetan	PBS Xizang
0500-0600	4920	LHA	100	kW	/	non-dir		Tibetan	PBS Xizang
0500-0600	5935	LHA	100	kW	/	085	deg	Chinese	PBS Xizang
0500-0600	5960	URU	100	kW	/	non-dir		Chinese	PBS Xizang
0500-0600	5990	XIN	050	kW	/	206	deg	Tibetan	PBS Qinghai
0500-0600	6025	LHA	100	kW	/	268	deg	Tibetan	PBS Xizang
0500-0600	6040	HUH	050	kW	/	263	deg	Mongolian	PBS Nei Menggu
0500-0600	6050	LHA	100	kW	/	290	deg	Chinese	PBS Xizang
0500-0600	6110	LHA	100	kW	/	220	deg	Tibetan	PBS Xizang
0500-0600	6130	LHA	100	kW	/	290	deg	Tibetan	PBS Xizang
0500-0600	6145	XIN	050	kW	/	270	deg	Chinese	PBS Qinghai
0500-0600	6200	LHA	100	kW	/	085	deg	Tibetan	PBS Xizang
0500-0600	7220	GEM	100	kW	/	non-dir		Chinese	CNR-2
0500-0600	7230	XIA	150	kW	/	non-dir		Chinese	CNR-1
0500-0600	7260	URU	100	kW	/	non-dir		Chinese	PBS Xinjiang
0500-0600	7270	HUH	050	kW	/	052	deg	Mongolian	PBS Nei Menggu
0500-0600	7275	URU	100	kW	/	non-dir		Uyghur	PBS Xinjiang
0500-0600	7340	URU	100	kW	/	non-dir		Kazakh	PBS Xinjiang
0500-0600	7420	HUH	050	kW	/	263	deg	Chinese	PBS Nei Menggu
0500-0600	9470	URU	100	kW	/	non-dir		Kazakh	PBS Xinjiang
0500-0600	9490	LHA	100	kW	/	085	deg	Tibetan	PBS Xizang
0500-0600	9500	SZG	100	kW	/	165	deg	Chinese	CNR-1
0500-0600	9520	HOH	050	kW	/	036	deg	Chinese	PBS Nei Menggu



0500-0600	9530	BJI	100	kW	/	255	deg	Tibetan	CNR-11
0500-0600	9560	URU	100	kW	/	non-dir		Uyghur	PBS Xinjiang
0500-0600	9570	GEM	100	kW	/	172	deg	Chinese	CNR-2
0500-0600	9600	URU	100	kW	/	230	deg	Chinese	PBS Xinjiang
0500-0600	9620	BEI	150	kW	/	non-dir		Chinese	CNR-2
0500-0600	9630	GEM	100	kW	/	236	deg	Chinese	CNR-1
0500-0600	9645	BEI	100	kW	/	non-dir		Chinese	CNR-1
0500-0600	9675	BEI	100	kW	/	037	deg	Chinese	CNR-1
0500-0600	9685	BEI	100	kW	/	163	deg	Chinese	CNR-5
0500-0600	9720	BJI	150	kW	/	non-dir		Chinese	CNR-2
0500-0600	9750	HOH	050	kW	/	036	deg	Mongolian	PBS Nei Menggu
0500-0600	9780	XIN	050	kW	/	270	deg	Chinese	PBS Qinghai
0500-0600	9810	BJI	100	kW	/	135	deg	Chinese	CNR-2
0500-0600	9850	XIN	050	kW	/	206	deg	Tibetan	PBS Qinghai
0500-0600	11610	BEI	150	kW	/	270	deg	Chinese	CNR-2
0500-0600	11620	BEI	100	kW	/	163	deg	Chinese	CNR-5
0500-0600	11630	LIN	100	kW	/	286	deg	Kazakh	CNR-8
0500-0600	11660	XIA	150	kW	/	non-dir		Chinese	CNR-2
0500-0600	11670	BEI	100	kW	/	220	deg	Chinese	CNR-2
0500-0600	11685	BJI	100	kW	/	255	deg	Tibetan	CNR-11
0500-0600	11720	SZG	100	kW	/	217	deg	Chinese	CNR-1
0500-0600	11750	SZG	100	kW	/	037	deg	Chinese	CNR-1
0500-0600	11760	SZG	100	kW	/	165	deg	Chinese	CNR-1
0500-0600	11770	URU	050	kW	/	230	deg	Chinese	PBS Xinjiang
0500-0600	11780	BEI	100	kW	/	283	deg	Kazakh	CNR-8
0500-0600	11800	BEI	150	kW	/	180	deg	Chinese	CNR-2
0500-0600	11835	XIA	150	kW	/	257	deg	Chinese	CNR-2
0500-0600	11845	XIA	150	kW	/	290	deg	Chinese	CNR-2
0500-0600	11860	LHA	100	kW	/	085	deg	Chinese	PBS Xizang
0500-0600	11885	URU	050	kW	/	non-dir		Uyghur	PBS Xinjiang
0500-0600	11905	BEI	100	kW	/	163	deg	Hakka	CNR-6
0500-0600	11915	BJI	100	kW	/	255	deg	Chinese	CNR-2
0500-0600	11935	BEI	100	kW	/	163	deg	Chinese	CNR-5
0500-0600	11950	LHA	100	kW	/	290	deg	Chinese	PBS Xizang
0500-0600	11960	BEI	100	kW	/	037	deg	Chinese	CNR-1
0500-0600	12045	BEI	100	kW	/	285	deg	Chinese	CNR-1
0500-0600	12055	LIN	100	kW	/	298	deg	Kazakh	CNR-8
0500-0600	12080	BJI	100	kW	/	255	deg	Chinese	CNR-2
0500-0600	13610	NNN	150	kW	/	155	deg	Chinese	CNR-1
0500-0600	13670	URU	050	kW	/	230	deg	Uyghur	PBS Xinjiang
0500-0600	13700	LIN	100	kW	/	286	deg	Uyghur	CNR-13
0500-0600	15270	BEI	150	kW	/	270	deg	Chinese	CNR-2
0500-0600	15370	SZG	100	kW	/	217	deg	Chinese	CNR-1
0500-0600	15380	BEI	100	kW	/	251	deg	Chinese	CNR-1
0500-0600	15390	LIN	100	kW	/	298	deg	Uyghur	CNR-13
0500-0600	15415	BEI	100	kW	/	283	deg	Kazakh	CNR-8
0500-0600	15480	BEI	100	kW	/	222	deg	Chinese	CNR-1
0500-0600	15500	BEI	150	kW	/	180	deg	Chinese	CNR-2

0500-0600 15550 BEI 100 kW / 175 deg Chinese CNR-1  
 0500-0600 15570 BJI 100 kW / 255 deg Tibetan CNR-11  
 0500-0600 15710 BEI 100 kW / 163 deg Hakka CNR-6  
 0500-0600 15770 LIN 100 kW / 286 deg Chinese CNR-2  
 0500-0600 17550 BEI 100 kW / 251 deg Chinese CNR-1  
 0500-0600 17565 BEI 100 kW / 175 deg Chinese CNR-1  
 0500-0600 17580 LIN 100 kW / 286 deg Chinese CNR-1  
 0500-0600 17595 SZG 100 kW / 217 deg Chinese CNR-1  
 0500-0600 17605 BEI 100 kW / 285 deg Chinese CNR-1  
 0500-0600 17625 BEI 150 kW / 163 deg Chinese CNR-2  
 0500-0600 17890 BEI 100 kW / 222 deg Chinese CNR-1

0530-0600 7230 URU 050 kW / non-dir Mongolian PBS Xinjiang  
 0530-0600 9510 URU 050 kW / non-dir Mongolian PBS Xinjiang

0600-0700 3900 HLR 010 kW / non-dir Chinese PBS Hulun Buir  
 0600-0700 3990 LAN 050 kW / non-dir Tibetan PBS Gannan  
 0600-0700 4750 HLR 010 kW / non-dir Chinese CNR-1  
 0600-0700 4800 GEM 100 kW / non-dir Chinese CNR-1  
 0600-0700 4820 LHA 100 kW / non-dir Chinese PBS Xizang  
 0600-0700 4905 LHA 100 kW / non-dir Tibetan PBS Xizang  
 0600-0700 4920 LHA 100 kW / non-dir Tibetan PBS Xizang  
 0600-0700 5935 LHA 100 kW / 085 deg Chinese PBS Xizang  
 0600-0700 5960 URU 100 kW / non-dir Chinese PBS Xizang  
 0600-0700 5990 XIN 050 kW / 206 deg Tibetan PBS Qinghai  
 0600-0700 6025 LHA 100 kW / 268 deg Tibetan PBS Xizang  
 0600-0700 6030 BEI 100 kW / non-dir Chinese CNR-1  
 0600-0700 6040 HUH 050 kW / 263 deg Mongolian PBS Nei Menggu  
 0600-0700 6050 LHA 100 kW / 290 deg Chinese PBS Xizang  
 0600-0700 6110 LHA 100 kW / 220 deg Tibetan PBS Xizang  
 0600-0700 6130 LHA 100 kW / 290 deg Tibetan PBS Xizang  
 0600-0700 6145 XIN 050 kW / 270 deg Chinese PBS Qinghai  
 0600-0700 6200 LHA 100 kW / 085 deg Tibetan PBS Xizang  
 0600-0700 7220 GEM 100 kW / non-dir Chinese CNR-2  
 0600-0700 7230 XIA 150 kW / non-dir Chinese CNR-1  
 0600-0700 7230 URU 050 kW / non-dir Mongolian PBS Xinjiang  
 0600-0700 7260 URU 100 kW / non-dir Chinese PBS Xinjiang  
 0600-0700 7270 HUH 050 kW / 052 deg Mongolian PBS Nei Menggu  
 0600-0700 7275 URU 100 kW / non-dir Uyghur PBS Xinjiang  
 0600-0700 7340 URU 100 kW / non-dir Kazakh PBS Xinjiang  
 0600-0700 7420 HUH 050 kW / 263 deg Chinese PBS Nei Menggu  
 0600-0700 9440 BEI 100 kW / 063 deg Korean CNR-8  
 0600-0700 9470 URU 100 kW / non-dir Kazakh PBS Xinjiang  
 0600-0700 9490 LHA 100 kW / 085 deg Tibetan PBS Xizang  
 0600-0700 9500 SZG 100 kW / 165 deg Chinese CNR-1  
 0600-0700 9510 URU 050 kW / non-dir Mongolian PBS Xinjiang  
 0600-0700 9520 HOH 050 kW / 036 deg Chinese PBS Nei Menggu  
 0600-0700 9530 BJI 100 kW / 255 deg Tibetan CNR-11

0600-0700	9560	URU	100	kW	/ non-dir	Uyghur PBS Xinjiang
0600-0700	9570	GEM	100	kW	/ 172 deg	Chinese CNR-2
0600-0700	9600	URU	100	kW	/ 230 deg	Chinese PBS Xinjiang
0600-0700	9610	BEI	100	kW	/ 063 deg	Korean CNR-8
0600-0700	9620	BEI	150	kW	/ non-dir	Chinese CNR-2
0600-0700	9630	GEM	100	kW	/ 236 deg	Chinese CNR-1
0600-0700	9645	BEI	100	kW	/ non-dir	Chinese CNR-1
0600-0700	9675	BEI	100	kW	/ 037 deg	Chinese CNR-1
0600-0700	9685	BEI	100	kW	/ 163 deg	Chinese CNR-5
0600-0700	9720	BJI	150	kW	/ non-dir	Chinese CNR-2
0600-0700	9750	HOH	050	kW	/ 036 deg	Mongolian PBS Nei Menggu
0600-0700	9780	XIN	050	kW	/ 270 deg	Chinese PBS Qinghai
0600-0700	9810	BJI	100	kW	/ 135 deg	Chinese CNR-2
0600-0700	9850	XIN	050	kW	/ 206 deg	Tibetan PBS Qinghai
0600-0700	11610	BEI	150	kW	/ 270 deg	Chinese CNR-2
0600-0700	11620	BEI	100	kW	/ 163 deg	Chinese CNR-5
0600-0700	11630	LIN	100	kW	/ 286 deg	Chinese CNR-1
0600-0700	11660	XIA	150	kW	/ non-dir	Chinese CNR-2
0600-0700	11670	BEI	100	kW	/ 220 deg	Chinese CNR-2
0600-0700	11685	BJI	100	kW	/ 255 deg	Tibetan CNR-11
0600-0700	11720	SZG	100	kW	/ 217 deg	Chinese CNR-1
0600-0700	11750	SZG	100	kW	/ 037 deg	Chinese CNR-1
0600-0700	11760	SZG	100	kW	/ 165 deg	Chinese CNR-1
0600-0700	11770	URU	050	kW	/ 230 deg	Chinese PBS Xinjiang
0600-0700	11800	BEI	150	kW	/ 180 deg	Chinese CNR-2
0600-0700	11835	XIA	150	kW	/ 257 deg	Chinese CNR-2
0600-0700	11845	XIA	150	kW	/ 290 deg	Chinese CNR-2
0600-0700	11860	LHA	100	kW	/ 085 deg	Chinese PBS Xizang
0600-0700	11885	URU	050	kW	/ non-dir	Uyghur PBS Xinjiang
0600-0700	11905	BEI	100	kW	/ 163 deg	Hakka CNR-6
0600-0700	11915	BJI	100	kW	/ 255 deg	Chinese CNR-2
0600-0700	11935	BEI	100	kW	/ 163 deg	Chinese CNR-5
0600-0700	11950	LHA	100	kW	/ 290 deg	Chinese PBS Xizang
0600-0700	11960	BEI	100	kW	/ 037 deg	Chinese CNR-1
0600-0700	12045	BEI	100	kW	/ 285 deg	Chinese CNR-1
0600-0700	12055	LIN	100	kW	/ 298 deg	Chinese CNR-1
0600-0700	12080	BJI	100	kW	/ 255 deg	Chinese CNR-2
0600-0700	13610	NNN	150	kW	/ 155 deg	Chinese CNR-1
0600-0700	13670	URU	050	kW	/ 230 deg	Uyghur PBS Xinjiang
0600-0700	13700	LIN	100	kW	/ 286 deg	Uyghur CNR-13
0600-0700	15270	BEI	150	kW	/ 270 deg	Chinese CNR-2
0600-0700	15370	SZG	100	kW	/ 217 deg	Chinese CNR-1
0600-0700	15380	BEI	100	kW	/ 251 deg	Chinese CNR-1
0600-0700	15390	LIN	100	kW	/ 298 deg	Uyghur CNR-13
0600-0700	15480	BEI	100	kW	/ 222 deg	Chinese CNR-1
0600-0700	15500	BEI	150	kW	/ 180 deg	Chinese CNR-2
0600-0700	15550	BEI	100	kW	/ 175 deg	Chinese CNR-1
0600-0700	15570	BJI	100	kW	/ 255 deg	Tibetan CNR-11

0600-0700	15710	BEI	100	kW	/	163	deg	Hakka	CNR-6
0600-0700	15770	LIN	100	kW	/	286	deg	Chinese	CNR-2
0600-0700	17550	BEI	100	kW	/	251	deg	Chinese	CNR-1
0600-0700	17565	BEI	100	kW	/	175	deg	Chinese	CNR-1
0600-0700	17580	LIN	100	kW	/	286	deg	Chinese	CNR-1
0600-0700	17595	SZG	100	kW	/	217	deg	Chinese	CNR-1
0600-0700	17605	BEI	100	kW	/	285	deg	Chinese	CNR-1
0600-0700	17625	BEI	150	kW	/	163	deg	Chinese	CNR-2
0600-0700	17890	BEI	100	kW	/	222	deg	Chinese	CNR-1
0630-0700	7210	KUN	050	kW	/	non-dir		Vernacular	PBS Yunnan
0700-0730	17565	BEI	100	kW	/	175	deg	Chinese	CNR-1
0700-0800	4750	HLR	010	kW	/	non-dir		Chinese	CNR-1
0700-0800	4800	GEM	100	kW	/	non-dir		Chinese	CNR-1
0700-0800	4820	LHA	100	kW	/	non-dir		Chinese	PBS Xizang
0700-0800	4905	LHA	100	kW	/	non-dir		English	PBS Xizang
0700-0800	4920	LHA	100	kW	/	non-dir		English	PBS Xizang
0700-0800	5935	LHA	100	kW	/	085	deg	Chinese	PBS Xizang
0700-0800	5960	URU	100	kW	/	non-dir		Chinese	PBS Xizang
0700-0800	5990	XIN	050	kW	/	206	deg	Tibetan	PBS Qinghai
0700-0800	6025	LHA	100	kW	/	268	deg	English	PBS Xizang
0700-0800	6030	BEI	100	kW	/	non-dir		Chinese	CNR-1
0700-0800	6040	HUH	050	kW	/	263	deg	Mongolian	PBS Nei Menggu
0700-0800	6050	LHA	100	kW	/	290	deg	Chinese	PBS Xizang
0700-0800	6110	LHA	100	kW	/	220	deg	English	PBS Xizang
0700-0800	6130	LHA	100	kW	/	290	deg	English	PBS Xizang
0700-0800	6145	XIN	050	kW	/	270	deg	Chinese	PBS Qinghai
0700-0800	6200	LHA	100	kW	/	085	deg	English	PBS Xizang
0700-0800	7210	KUN	050	kW	/	non-dir		Vernacular	PBS Yunnan
0700-0800	7220	GEM	100	kW	/	non-dir		Chinese	CNR-2
0700-0800	7230	XIA	150	kW	/	non-dir		Chinese	CNR-1
0700-0800	7230	URU	050	kW	/	non-dir		Mongolian	PBS Xinjiang
0700-0800	7260	URU	100	kW	/	non-dir		Chinese	PBS Xinjiang
0700-0800	7270	HUH	050	kW	/	052	deg	Mongolian	PBS Nei Menggu
0700-0800	7275	URU	100	kW	/	non-dir		Uyghur	PBS Xinjiang
0700-0800	7340	URU	100	kW	/	non-dir		Kazakh	PBS Xinjiang
0700-0800	7420	HUH	050	kW	/	263	deg	Chinese	PBS Nei Menggu
0700-0800	9470	URU	100	kW	/	non-dir		Kazakh	PBS Xinjiang
0700-0800	9490	LHA	100	kW	/	085	deg	English	PBS Xizang
0700-0800	9500	SZG	100	kW	/	165	deg	Chinese	CNR-1
0700-0800	9510	URU	050	kW	/	non-dir		Mongolian	PBS Xinjiang
0700-0800	9520	HOH	050	kW	/	036	deg	Chinese	PBS Nei Menggu
0700-0800	9530	BJI	100	kW	/	255	deg	Tibetan	CNR-11
0700-0800	9560	URU	100	kW	/	non-dir		Uyghur	PBS Xinjiang
0700-0800	9570	GEM	100	kW	/	172	deg	Chinese	CNR-2
0700-0800	9600	URU	100	kW	/	230	deg	Chinese	PBS Xinjiang

0700-0800	9620	BEI	150	kW / non-dir	Chinese CNR-2
0700-0800	9630	GEM	100	kW / 236 deg	Chinese CNR-1
0700-0800	9645	BEI	100	kW / non-dir	Chinese CNR-1
0700-0800	9675	BEI	100	kW / 037 deg	Chinese CNR-1
0700-0800	9685	BEI	100	kW / 163 deg	Chinese CNR-5
0700-0800	9720	BJI	150	kW / non-dir	Chinese CNR-2
0700-0800	9750	HOH	050	kW / 036 deg	Mongolian PBS Nei Menggu
0700-0800	9780	XIN	050	kW / 270 deg	Chinese PBS Qinghai
0700-0800	9810	BJI	100	kW / 135 deg	Chinese CNR-2
0700-0800	9850	XIN	050	kW / 206 deg	Tibetan PBS Qinghai
0700-0800	11610	BEI	150	kW / 270 deg	Chinese CNR-2
0700-0800	11620	BEI	100	kW / 163 deg	Chinese CNR-5
0700-0800	11630	LIN	100	kW / 286 deg	Mongolian CNR-8
0700-0800	11660	XIA	150	kW / non-dir	Chinese CNR-2
0700-0800	11670	BEI	100	kW / 220 deg	Chinese CNR-2
0700-0800	11685	BJI	100	kW / 255 deg	Tibetan CNR-11
0700-0800	11720	SZG	100	kW / 217 deg	Chinese CNR-1
0700-0800	11750	SZG	100	kW / 037 deg	Chinese CNR-1
0700-0800	11760	SZG	100	kW / 165 deg	Chinese CNR-1
0700-0800	11770	URU	050	kW / 230 deg	Chinese PBS Xinjiang
0700-0800	11780	BEI	100	kW / 283 deg	Mongolian CNR-8
0700-0800	11800	BEI	150	kW / 180 deg	Chinese CNR-2
0700-0800	11835	XIA	150	kW / 257 deg	Chinese CNR-2
0700-0800	11845	XIA	150	kW / 290 deg	Chinese CNR-2
0700-0800	11860	LHA	100	kW / 085 deg	Chinese PBS Xizang
0700-0800	11885	URU	050	kW / non-dir	Uyghur PBS Xinjiang
0700-0800	11905	BEI	100	kW / 163 deg	Hakka CNR-6
0700-0800	11915	BJI	100	kW / 255 deg	Chinese CNR-2
0700-0800	11935	BEI	100	kW / 163 deg	Chinese CNR-5
0700-0800	11950	LHA	100	kW / 290 deg	Chinese PBS Xizang
0700-0800	11960	BEI	100	kW / 037 deg	Chinese CNR-1
0700-0800	12045	BEI	100	kW / 285 deg	Chinese CNR-1
0700-0800	12055	LIN	100	kW / 298 deg	Mongolian CNR-8
0700-0800	12080	BJI	100	kW / 255 deg	Chinese CNR-2
0700-0800	13610	NNN	150	kW / 155 deg	Chinese CNR-1
0700-0800	13670	URU	050	kW / 230 deg	Uyghur PBS Xinjiang
0700-0800	13700	LIN	100	kW / 286 deg	Uyghur CNR-13
0700-0800	15270	BEI	150	kW / 270 deg	Chinese CNR-2
0700-0800	15370	SZG	100	kW / 217 deg	Chinese CNR-1
0700-0800	15380	BEI	100	kW / 251 deg	Chinese CNR-1
0700-0800	15390	LIN	100	kW / 298 deg	Uyghur CNR-13
0700-0800	15415	BEI	100	kW / 283 deg	Mongolian CNR-8
0700-0800	15480	BEI	100	kW / 222 deg	Chinese CNR-1
0700-0800	15500	BEI	150	kW / 180 deg	Chinese CNR-2
0700-0800	15550	BEI	100	kW / 175 deg	Chinese CNR-1
0700-0800	15570	BJI	100	kW / 255 deg	Tibetan CNR-11
0700-0800	15710	BEI	100	kW / 163 deg	Hakka CNR-6
0700-0800	15770	LIN	100	kW / 286 deg	Chinese CNR-2

0700-0800	17550	BEI	100	kW	/	251	deg	Chinese	CNR-1
0700-0800	17580	LIN	100	kW	/	286	deg	Chinese	CNR-1
0700-0800	17595	SZG	100	kW	/	217	deg	Chinese	CNR-1
0700-0800	17605	BEI	100	kW	/	285	deg	Chinese	CNR-1
0700-0800	17625	BEI	150	kW	/	163	deg	Chinese	CNR-2
0700-0800	17890	BEI	100	kW	/	222	deg	Chinese	CNR-1
0730-0800	9830	BEI	100	kW	/	175	deg	Chinese	CNR-1
0800-0830	7210	KUN	050	kW	/	non-dir		Vernacular	PBS Yunnan
0800-0830	9645	BEI	100	kW	/	non-dir		Chinese	CNR-1
0800-0830	9850	XIN	050	kW	/	206	deg	Tibetan	PBS Qinghai
0800-0900	4750	HLR	010	kW	/	non-dir		Chinese	CNR-1
0800-0900	4800	GEM	100	kW	/	non-dir		Chinese	CNR-1
0800-0900	4820	LHA	100	kW	/	non-dir		Chinese	PBS Xizang
0800-0900	4905	LHA	100	kW	/	non-dir		Tibetan	PBS Xizang
0800-0900	4920	LHA	100	kW	/	non-dir		Tibetan	PBS Xizang
0800-0900	5935	LHA	100	kW	/	085	deg	Chinese	PBS Xizang
0800-0900	5955	BEI	100	kW	/	015	deg	Mongolian	CNR-8
0800-0900	5960	URU	100	kW	/	non-dir		Chinese	PBS Xizang
0800-0900	5990	XIN	050	kW	/	206	deg	Tibetan	PBS Qinghai
0800-0900	6025	LHA	100	kW	/	268	deg	Tibetan	PBS Xizang
0800-0900	6030	BEI	100	kW	/	non-dir		Chinese	CNR-1
0800-0900	6040	HUH	050	kW	/	263	deg	Mongolian	PBS Nei Menggu
0800-0900	6050	LHA	100	kW	/	290	deg	Chinese	PBS Xizang
0800-0900	6110	LHA	100	kW	/	220	deg	Tibetan	PBS Xizang
0800-0900	6130	LHA	100	kW	/	290	deg	Tibetan	PBS Xizang
0800-0900	6145	XIN	050	kW	/	270	deg	Chinese	PBS Qinghai
0800-0900	6200	LHA	100	kW	/	085	deg	Tibetan	PBS Xizang
0800-0900	7220	GEM	100	kW	/	non-dir		Chinese	CNR-2
0800-0900	7230	XIA	150	kW	/	non-dir		Chinese	CNR-1
0800-0900	7230	URU	050	kW	/	non-dir		Mongolian	PBS Xinjiang
0800-0900	7260	URU	100	kW	/	non-dir		Chinese	PBS Xinjiang
0800-0900	7270	HUH	050	kW	/	052	deg	Mongolian	PBS Nei Menggu
0800-0900	7275	URU	100	kW	/	non-dir		Uyghur	PBS Xinjiang
0800-0900	7305	SZG	100	kW	/	037	deg	Chinese	CNR-1
0800-0900	7340	URU	100	kW	/	non-dir		Kazakh	PBS Xinjiang
0800-0900	7345	BEI	100	kW	/	175	deg	Chinese	CNR-1
0800-0900	7420	HUH	050	kW	/	263	deg	Chinese	PBS Nei Menggu
0800-0900	9470	URU	100	kW	/	non-dir		Kazakh	PBS Xinjiang
0800-0900	9480	BJI	100	kW	/	255	deg	Tibetan	CNR-8
0800-0900	9490	LHA	100	kW	/	085	deg	Tibetan	PBS Xizang
0800-0900	9500	SZG	100	kW	/	165	deg	Chinese	CNR-1
0800-0900	9510	URU	050	kW	/	non-dir		Mongolian	PBS Xinjiang
0800-0900	9520	HOH	050	kW	/	036	deg	Chinese	PBS Nei Menggu
0800-0900	9530	BJI	100	kW	/	255	deg	Tibetan	CNR-11
0800-0900	9560	URU	100	kW	/	non-dir		Uyghur	PBS Xinjiang

0800-0900	9570	GEM	100	kW	/	172	deg	Chinese	CNR-2
0800-0900	9600	URU	100	kW	/	230	deg	Chinese	PBS Xinjiang
0800-0900	9620	BEI	150	kW	/	non-dir		Chinese	CNR-2
0800-0900	9630	GEM	100	kW	/	236	deg	Chinese	CNR-1
0800-0900	9675	BEI	100	kW	/	037	deg	Chinese	CNR-1
0800-0900	9685	BEI	100	kW	/	163	deg	Chinese	CNR-5
0800-0900	9720	BJI	150	kW	/	non-dir		Chinese	CNR-2
0800-0900	9750	HOH	050	kW	/	036	deg	Mongolian	PBS Nei Menggu
0800-0900	9780	XIN	050	kW	/	270	deg	Chinese	PBS Qinghai
0800-0900	9810	BJI	100	kW	/	135	deg	Chinese	CNR-2
0800-0900	9830	BEI	100	kW	/	175	deg	Chinese	CNR-1
0800-0900	11610	BEI	150	kW	/	270	deg	Chinese	CNR-2
0800-0900	11620	BEI	100	kW	/	163	deg	Chinese	CNR-5
0800-0900	11630	LIN	100	kW	/	286	deg	Chinese	CNR-1
0800-0900	11660	XIA	150	kW	/	non-dir		Chinese	CNR-2
0800-0900	11670	BEI	100	kW	/	220	deg	Chinese	CNR-2
0800-0900	11685	BJI	100	kW	/	255	deg	Tibetan	CNR-11
0800-0900	11720	SZG	100	kW	/	217	deg	Chinese	CNR-1
0800-0900	11760	SZG	100	kW	/	165	deg	Chinese	CNR-1
0800-0900	11770	URU	050	kW	/	230	deg	Chinese	PBS Xinjiang
0800-0900	11780	BEI	100	kW	/	283	deg	Mongolian	CNR-8
0800-0900	11800	BEI	150	kW	/	180	deg	Chinese	CNR-2
0800-0900	11835	XIA	150	kW	/	257	deg	Chinese	CNR-2
0800-0900	11845	XIA	150	kW	/	290	deg	Chinese	CNR-2
0800-0900	11860	LHA	100	kW	/	085	deg	Chinese	PBS Xizang
0800-0900	11885	URU	050	kW	/	non-dir		Uyghur	PBS Xinjiang
0800-0900	11905	BEI	100	kW	/	163	deg	Hakka	CNR-6
0800-0900	11915	BJI	100	kW	/	255	deg	Chinese	CNR-2
0800-0900	11935	BEI	100	kW	/	163	deg	Chinese	CNR-5
0800-0900	11950	LHA	100	kW	/	290	deg	Chinese	PBS Xizang
0800-0900	11960	BEI	100	kW	/	037	deg	Chinese	CNR-1
0800-0900	12045	BEI	100	kW	/	285	deg	Chinese	CNR-1
0800-0900	12055	LIN	100	kW	/	298	deg	Chinese	CNR-1
0800-0900	12080	BJI	100	kW	/	255	deg	Chinese	CNR-2
0800-0900	13610	NNN	150	kW	/	155	deg	Chinese	CNR-1
0800-0900	13670	URU	050	kW	/	230	deg	Uyghur	PBS Xinjiang
0800-0900	13700	LIN	100	kW	/	286	deg	Uyghur	CNR-13
0800-0900	15270	BEI	150	kW	/	270	deg	Chinese	CNR-2
0800-0900	15370	SZG	100	kW	/	217	deg	Chinese	CNR-1
0800-0900	15380	BEI	100	kW	/	251	deg	Chinese	CNR-1
0800-0900	15390	LIN	100	kW	/	298	deg	Uyghur	CNR-13
0800-0900	15480	BEI	100	kW	/	222	deg	Chinese	CNR-1
0800-0900	15500	BEI	150	kW	/	180	deg	Chinese	CNR-2
0800-0900	15710	BEI	100	kW	/	163	deg	Hakka	CNR-6
0800-0900	15770	LIN	100	kW	/	286	deg	Chinese	CNR-2
0800-0900	17550	BEI	100	kW	/	251	deg	Chinese	CNR-1
0800-0900	17580	LIN	100	kW	/	286	deg	Chinese	CNR-1
0800-0900	17595	SZG	100	kW	/	217	deg	Chinese	CNR-1

0800-0900	17605	BEI	100	kw / 285 deg	Chinese CNR-1
0800-0900	17625	BEI	150	kw / 163 deg	Chinese CNR-2
0800-0900	17890	BEI	100	kw / 222 deg	Chinese CNR-1
0830-0900	6000	BEI	100	kw / non-dir	Chinese CNR-1
0900-1000	3900	HLR	010	kw / non-dir	Chinese PBS Hulun Buir
0900-1000	3985	GEM	100	kw / non-dir	Chinese CNR-2
0900-1000	4750	XIN	050	kw / 270 deg	Chinese PBS Qinghai
0900-1000	4750	HLR	010	kw / non-dir	Chinese CNR-1
0900-1000	4800	GEM	100	kw / non-dir	Chinese CNR-1
0900-1000	4820	LHA	100	kw / non-dir	Chinese PBS Xizang
0900-1000	4905	LHA	100	kw / non-dir	Tibetan PBS Xizang
0900-1000	5935	LHA	100	kw / 085 deg	Chinese PBS Xizang
0900-1000	5960	URU	100	kw / non-dir	Chinese PBS Xizang
0900-1000	5990	XIN	050	kw / 206 deg	Tibetan PBS Qinghai
0900-1000	6000	BEI	100	kw / non-dir	Chinese CNR-1
0900-1000	6025	LHA	100	kw / 268 deg	Tibetan PBS Xizang
0900-1000	6030	BEI	100	kw / non-dir	Chinese CNR-1
0900-1000	6040	HUH	050	kw / 263 deg	Mongolian PBS Nei Menggu
0900-1000	6050	LHA	100	kw / 290 deg	Chinese PBS Xizang
0900-1000	6110	LHA	100	kw / 220 deg	Tibetan PBS Xizang
0900-1000	6130	LHA	100	kw / 290 deg	Tibetan PBS Xizang
0900-1000	6145	XIN	050	kw / 270 deg	Chinese PBS Qinghai
0900-1000	6165	BEI	100	kw / 163 deg	Hakka CNR-6
0900-1000	6175	BEI	100	kw / 037 deg	Chinese CNR-1
0900-1000	6200	LHA	100	kw / 085 deg	Tibetan PBS Xizang
0900-1000	7230	XIA	150	kw / non-dir	Chinese CNR-1
0900-1000	7230	URU	050	kw / non-dir	Mongolian PBS Xinjiang
0900-1000	7240	LHA	100	kw / 290 deg	Chinese PBS Xizang
0900-1000	7245	BEI	150	kw / non-dir	Chinese CNR-2
0900-1000	7260	URU	100	kw / non-dir	Chinese PBS Xinjiang
0900-1000	7270	HUH	050	kw / 052 deg	Mongolian PBS Nei Menggu
0900-1000	7275	URU	100	kw / non-dir	Uyghur PBS Xinjiang
0900-1000	7305	SZG	100	kw / 037 deg	Chinese CNR-1
0900-1000	7315	XIA	150	kw / non-dir	Chinese CNR-2
0900-1000	7340	URU	100	kw / non-dir	Kazakh PBS Xinjiang
0900-1000	7345	BEI	100	kw / 175 deg	Chinese CNR-1
0900-1000	7350	BJI	100	kw / 255 deg	Tibetan CNR-11
0900-1000	7385	BEI	100	kw / 163 deg	Chinese CNR-5
0900-1000	7420	HUH	050	kw / 263 deg	Chinese PBS Nei Menggu
0900-1000	7450	LHA	100	kw / 085 deg	Chinese PBS Xizang
0900-1000	9470	URU	100	kw / non-dir	Kazakh PBS Xinjiang
0900-1000	9480	BJI	100	kw / 255 deg	Tibetan CNR-8
0900-1000	9490	LHA	100	kw / 085 deg	Tibetan PBS Xizang
0900-1000	9500	SZG	100	kw / 165 deg	Chinese CNR-1
0900-1000	9510	URU	050	kw / non-dir	Mongolian PBS Xinjiang
0900-1000	9515	BEI	100	kw / 163 deg	Chinese CNR-2



0900-1000	9520	HOH	050	kW	/	036	deg	Chinese PBS Nei Menggu
0900-1000	9530	BJI	100	kW	/	255	deg	Tibetan CNR-11
0900-1000	9560	URU	100	kW	/	non-dir		Uyghur PBS Xinjiang
0900-1000	9570	GEM	100	kW	/	172	deg	Chinese CNR-2
0900-1000	9600	URU	100	kW	/	230	deg	Chinese PBS Xinjiang
0900-1000	9620	BEI	100	kW	/	163	deg	Hakka CNR-6
0900-1000	9630	GEM	100	kW	/	236	deg	Chinese CNR-1
0900-1000	9675	BEI	100	kW	/	037	deg	Chinese CNR-1
0900-1000	9685	BEI	100	kW	/	163	deg	Chinese CNR-5
0900-1000	9720	BJI	150	kW	/	non-dir		Chinese CNR-2
0900-1000	9750	HOH	050	kW	/	036	deg	Mongolian PBS Nei Menggu
0900-1000	9775	BEI	150	kW	/	270	deg	Chinese CNR-2
0900-1000	9810	BJI	100	kW	/	135	deg	Chinese CNR-2
0900-1000	9820	XIA	100	kW	/	290	deg	Chinese CNR-2
0900-1000	9830	BEI	100	kW	/	175	deg	Chinese CNR-1
0900-1000	11610	BEI	150	kW	/	270	deg	Chinese CNR-2
0900-1000	11620	BEI	100	kW	/	163	deg	Chinese CNR-5
0900-1000	11630	LIN	100	kW	/	286	deg	Kazakh CNR-8
0900-1000	11670	BEI	100	kW	/	220	deg	Chinese CNR-2
0900-1000	11720	SZG	100	kW	/	217	deg	Chinese CNR-1
0900-1000	11760	SZG	100	kW	/	165	deg	Chinese CNR-1
0900-1000	11770	URU	050	kW	/	230	deg	Chinese PBS Xinjiang
0900-1000	11780	BEI	100	kW	/	283	deg	Kazakh CNR-8
0900-1000	11800	BEI	150	kW	/	180	deg	Chinese CNR-2
0900-1000	11835	XIA	150	kW	/	257	deg	Chinese CNR-2
0900-1000	11885	URU	050	kW	/	non-dir		Uyghur PBS Xinjiang
0900-1000	11915	BJI	100	kW	/	255	deg	Chinese CNR-2
0900-1000	12045	BEI	100	kW	/	285	deg	Chinese CNR-1
0900-1000	12055	LIN	100	kW	/	298	deg	Kazakh CNR-8
0900-1000	12080	BJI	100	kW	/	255	deg	Chinese CNR-2
0900-1000	13610	NNN	150	kW	/	155	deg	Chinese CNR-1
0900-1000	13670	URU	050	kW	/	230	deg	Uyghur PBS Xinjiang
0900-1000	13700	LIN	100	kW	/	286	deg	Uyghur CNR-13
0900-1000	15370	SZG	100	kW	/	217	deg	Chinese CNR-1
0900-1000	15380	BEI	100	kW	/	251	deg	Chinese CNR-1
0900-1000	15390	LIN	100	kW	/	298	deg	Uyghur CNR-13
0900-1000	15415	BEI	100	kW	/	283	deg	Kazakh CNR-8
0900-1000	15480	BEI	100	kW	/	222	deg	Chinese CNR-1
0900-1000	15500	BEI	150	kW	/	180	deg	Chinese CNR-2
0900-1000	15770	LIN	100	kW	/	286	deg	Chinese CNR-2
0900-1000	17550	BEI	100	kW	/	251	deg	Chinese CNR-1
0900-1000	17580	LIN	100	kW	/	286	deg	Chinese CNR-1
0900-1000	17595	SZG	100	kW	/	217	deg	Chinese CNR-1
0900-1000	17605	BEI	100	kW	/	285	deg	Chinese CNR-1
0900-1000	17890	BEI	100	kW	/	222	deg	Chinese CNR-1

0930-1000	6035	KUN	050	kW	/	147	deg	Vietnamese PBS Yunnan
0930-1000	6080	HLR	010	kW	/	non-dir		Mongolian PBS Hulun Buir

0930-1000	7385	LHA	100	kW	/ 290 deg	Tibetan PBS Xizang
1000-1030	7230	URU	050	kW	/ non-dir	Mongolian PBS Xinjiang
1000-1030	9510	URU	050	kW	/ non-dir	Mongolian PBS Xinjiang
1000-1030	9530	BJI	100	kW	/ 255 deg	Tibetan CNR-11
1000-1030	17550	BEI	100	kW	/ 251 deg	Chinese CNR-1
1000-1100	3900	HLR	010	kW	/ non-dir	Chinese PBS Hulun Buir
1000-1100	3985	GEM	100	kW	/ non-dir	Chinese CNR-2
1000-1100	4750	XIN	050	kW	/ 270 deg	Chinese PBS Qinghai
1000-1100	4750	HLR	010	kW	/ non-dir	Chinese CNR-1
1000-1100	4800	GEM	100	kW	/ non-dir	Chinese CNR-1
1000-1100	4820	LHA	100	kW	/ non-dir	Chinese PBS Xizang
1000-1100	4905	LHA	100	kW	/ non-dir	Tibetan PBS Xizang
1000-1100	5925	BEI	100	kW	/ 163 deg	Chinese CNR-5
1000-1100	5935	LHA	100	kW	/ 085 deg	Chinese PBS Xizang
1000-1100	5945	BEI	100	kW	/ 222 deg	Chinese CNR-1
1000-1100	5960	URU	100	kW	/ non-dir	Chinese PBS Xizang
1000-1100	5990	XIN	050	kW	/ 206 deg	Tibetan PBS Qinghai
1000-1100	6000	BEI	100	kW	/ non-dir	Chinese CNR-1
1000-1100	6025	LHA	100	kW	/ 268 deg	Tibetan PBS Xizang
1000-1100	6030	BEI	100	kW	/ non-dir	Chinese CNR-1
1000-1100	6035	KUN	050	kW	/ 147 deg	Vietnamese PBS Yunnan
1000-1100	6040	HUH	050	kW	/ 263 deg	Mongolian PBS Nei Menggu
1000-1100	6050	LHA	100	kW	/ 290 deg	Chinese PBS Xizang
1000-1100	6060	CDU	050	kW	/ 358 deg	Tibetan PBS Sichuan 2
1000-1100	6080	HLR	010	kW	/ non-dir	Mongolian PBS Hulun Buir
1000-1100	6090	GEM	100	kW	/ 172 deg	Chinese CNR-2
1000-1100	6110	LHA	100	kW	/ 220 deg	Tibetan PBS Xizang
1000-1100	6125	BEI	100	kW	/ 037 deg	Chinese CNR-1
1000-1100	6125	SZG	100	kW	/ 217 deg	Chinese CNR-1
1000-1100	6130	LHA	100	kW	/ 290 deg	Tibetan PBS Xizang
1000-1100	6145	XIN	050	kW	/ 270 deg	Chinese PBS Qinghai
1000-1100	6155	BEI	150	kW	/ non-dir	Chinese CNR-2
1000-1100	6165	BEI	100	kW	/ 163 deg	Hakka CNR-6
1000-1100	6175	BEI	100	kW	/ 037 deg	Chinese CNR-1
1000-1100	6200	LHA	100	kW	/ 085 deg	Tibetan PBS Xizang
1000-1100	7225	CDU	050	kW	/ non-dir	Tibetan PBS Sichuan 2
1000-1100	7230	XIA	150	kW	/ non-dir	Chinese CNR-1
1000-1100	7240	LHA	100	kW	/ 290 deg	Chinese PBS Xizang
1000-1100	7245	BEI	150	kW	/ non-dir	Chinese CNR-2
1000-1100	7255	LHA	100	kW	/ 085 deg	Tibetan PBS Xizang
1000-1100	7260	URU	100	kW	/ non-dir	Chinese PBS Xinjiang
1000-1100	7270	HUH	050	kW	/ 052 deg	Mongolian PBS Nei Menggu
1000-1100	7275	URU	100	kW	/ non-dir	Uyghur PBS Xinjiang
1000-1100	7305	SZG	100	kW	/ 037 deg	Chinese CNR-1
1000-1100	7315	XIA	150	kW	/ non-dir	Chinese CNR-2
1000-1100	7335	BJI	100	kW	/ 255 deg	Chinese CNR-2

1000-1100	7340	URU	100	kW	/ non-dir	Kazakh PBS Xinjiang
1000-1100	7345	BEI	100	kW	/ 175 deg	Chinese CNR-1
1000-1100	7350	BJI	100	kW	/ 255 deg	Tibetan CNR-11
1000-1100	7360	BEI	100	kW	/ 063 deg	Korean CNR-8
1000-1100	7365	SZG	100	kW	/ 037 deg	Chinese CNR-1
1000-1100	7385	BEI	100	kW	/ 163 deg	Chinese CNR-5
1000-1100	7385	LHA	100	kW	/ 290 deg	Tibetan PBS Xizang
1000-1100	7410	BEI	100	kW	/ 063 deg	Korean CNR-8
1000-1100	7420	HUH	050	kW	/ 263 deg	Chinese PBS Nei Menggu
1000-1100	7450	LHA	100	kW	/ 085 deg	Chinese PBS Xizang
1000-1100	9410	BEI	100	kW	/ 163 deg	Chinese CNR-5
1000-1100	9470	URU	100	kW	/ non-dir	Kazakh PBS Xinjiang
1000-1100	9480	BJI	100	kW	/ 255 deg	Tibetan CNR-8
1000-1100	9500	SZG	100	kW	/ 165 deg	Chinese CNR-1
1000-1100	9515	BEI	100	kW	/ 163 deg	Chinese CNR-2
1000-1100	9520	HOH	050	kW	/ 036 deg	Chinese PBS Nei Menggu
1000-1100	9560	URU	100	kW	/ non-dir	Uyghur PBS Xinjiang
1000-1100	9600	URU	100	kW	/ 230 deg	Chinese PBS Xinjiang
1000-1100	9620	BEI	100	kW	/ 163 deg	Hakka CNR-6
1000-1100	9630	GEM	100	kW	/ 236 deg	Chinese CNR-1
1000-1100	9750	HOH	050	kW	/ 036 deg	Mongolian PBS Nei Menggu
1000-1100	9755	BJI	100	kW	/ 255 deg	Chinese CNR-2
1000-1100	9775	BEI	150	kW	/ 270 deg	Chinese CNR-2
1000-1100	9785	BEI	100	kW	/ 063 deg	Korean CNR-8
1000-1100	9810	BJI	100	kW	/ 135 deg	Chinese CNR-2
1000-1100	9820	XIA	100	kW	/ 290 deg	Chinese CNR-2
1000-1100	9830	BEI	100	kW	/ 175 deg	Chinese CNR-1
1000-1100	11610	BEI	150	kW	/ 270 deg	Chinese CNR-2
1000-1100	11630	LIN	100	kW	/ 286 deg	Chinese CNR-1
1000-1100	11670	BEI	100	kW	/ 220 deg	Chinese CNR-2
1000-1100	11710	BEI	100	kW	/ 285 deg	Chinese CNR-1
1000-1100	11720	SZG	100	kW	/ 217 deg	Chinese CNR-1
1000-1100	11770	URU	050	kW	/ 230 deg	Chinese PBS Xinjiang
1000-1100	11835	XIA	150	kW	/ 257 deg	Chinese CNR-2
1000-1100	11885	URU	050	kW	/ non-dir	Uyghur PBS Xinjiang
1000-1100	11925	LIN	100	kW	/ 286 deg	Chinese CNR-1
1000-1100	12045	BEI	100	kW	/ 285 deg	Chinese CNR-1
1000-1100	12055	LIN	100	kW	/ 298 deg	Chinese CNR-1
1000-1100	13610	NNN	150	kW	/ 155 deg	Chinese CNR-1
1000-1100	13670	URU	050	kW	/ 230 deg	Uyghur PBS Xinjiang
1000-1100	13700	LIN	100	kW	/ 286 deg	Uyghur CNR-13
1000-1100	15370	SZG	100	kW	/ 217 deg	Chinese CNR-1
1000-1100	15380	BEI	100	kW	/ 251 deg	Chinese CNR-1
1000-1100	15390	LIN	100	kW	/ 298 deg	Uyghur CNR-13
1000-1100	15770	LIN	100	kW	/ 286 deg	Chinese CNR-2
1000-1100	17890	BEI	100	kW	/ 222 deg	Chinese CNR-1

1030-1100	3990	LAN	050	kW	/ non-dir	Tibetan PBS Gannan
-----------	------	-----	-----	----	-----------	--------------------

1030-1100 6010 BJI 100 kW / 255 deg Tibetan CNR-11  
 1030-1100 7295 URU 100 kW / 247 deg Kyrgyz PBS Xinjiang  
 1030-1100 7375 BEI 150 kW / 180 deg Chinese CNR-2  
 1030-1100 9705 URU 100 kW / 247 deg Kyrgyz PBS Xinjiang  
 1030-1100 9845 BEI 100 kW / 251 deg Chinese CNR-1  
 1000-1030 11800 BEI 150 kW / 180 deg Chinese CNR-2

1100-1200 3900 HLR 010 kW / non-dir Chinese PBS Hulun Buir  
 1100-1200 3985 GEM 100 kW / non-dir Chinese CNR-2  
 1100-1200 3990 LAN 050 kW / non-dir Tibetan PBS Gannan  
 1100-1200 4750 XIN 050 kW / 270 deg Chinese PBS Qinghai  
 1100-1200 4750 HLR 010 kW / non-dir Chinese CNR-1  
 1100-1200 4800 GEM 100 kW / non-dir Chinese CNR-1  
 1100-1200 4820 LHA 100 kW / non-dir Chinese PBS Xizang  
 1100-1200 4905 LHA 100 kW / non-dir Tibetan PBS Xizang  
 1100-1200 5925 BEI 100 kW / 163 deg Chinese CNR-5  
 1100-1200 5935 LHA 100 kW / 085 deg Chinese PBS Xizang  
 1100-1200 5945 BEI 100 kW / 222 deg Chinese CNR-1  
 1100-1200 5960 URU 100 kW / non-dir Chinese PBS Xizang  
 1100-1200 5975 BEI 100 kW / 063 deg Korean CNR-8  
 1100-1200 5990 XIN 050 kW / 206 deg Tibetan PBS Qinghai  
 1100-1200 6000 BEI 100 kW / non-dir Chinese CNR-1  
 1100-1200 6010 BJI 100 kW / 255 deg Tibetan CNR-11  
 1100-1200 6020 BEI 100 kW / 063 deg Korean CNR-8  
 1100-1200 6025 LHA 100 kW / 268 deg Tibetan PBS Xizang  
 1100-1200 6030 BEI 100 kW / non-dir Chinese CNR-1  
 1100-1200 6035 KUN 050 kW / 147 deg Chinese PBS Yunnan  
 1100-1200 6040 HUH 050 kW / 263 deg Mongolian PBS Nei Menggu  
 1100-1200 6050 LHA 100 kW / 290 deg Chinese PBS Xizang  
 1100-1200 6060 CDU 050 kW / 358 deg Tibetan PBS Sichuan 2  
 1100-1200 6080 HLR 010 kW / non-dir Mongolian PBS Hulun Buir  
 1100-1200 6090 GEM 100 kW / 172 deg Chinese CNR-2  
 1100-1200 6110 LHA 100 kW / 220 deg Tibetan PBS Xizang  
 1100-1200 6125 BEI 100 kW / 037 deg Chinese CNR-1  
 1100-1200 6125 SZG 100 kW / 217 deg Chinese CNR-1  
 1100-1200 6130 LHA 100 kW / 290 deg Tibetan PBS Xizang  
 1100-1200 6145 XIN 050 kW / 270 deg Chinese PBS Qinghai  
 1100-1200 6155 BEI 150 kW / non-dir Chinese CNR-2  
 1100-1200 6165 BEI 100 kW / 163 deg Chinese CNR-6  
 1100-1200 6175 BEI 100 kW / 037 deg Chinese CNR-1  
 1100-1200 6200 LHA 100 kW / 085 deg Tibetan PBS Xizang  
 1100-1200 7210 KUN 050 kW / non-dir Vernacular PBS Yunnan  
 1100-1200 7225 CDU 050 kW / non-dir Tibetan PBS Sichuan 2  
 1100-1200 7230 XIA 150 kW / non-dir Chinese CNR-1  
 1100-1200 7240 LHA 100 kW / 290 deg Chinese PBS Xizang  
 1100-1200 7245 BEI 150 kW / non-dir Chinese CNR-2  
 1100-1200 7255 LHA 100 kW / 085 deg Tibetan PBS Xizang  
 1100-1200 7260 URU 100 kW / non-dir Chinese PBS Xinjiang

1100-1200	7270	HUH	050	kW	/	052	deg	Mongolian PBS Nei Menggu
1100-1200	7275	URU	100	kW	/	non-dir		Uyghur PBS Xinjiang
1100-1200	7275	BEI	100	kW	/	251	deg	Chinese CNR-1
1100-1200	7290	BEI	100	kW	/	222	deg	Chinese CNR-1
1100-1200	7295	URU	100	kW	/	247	deg	Kyrgyz PBS Xinjiang
1100-1200	7305	SZG	100	kW	/	037	deg	Chinese CNR-1
1100-1200	7315	XIA	150	kW	/	non-dir		Chinese CNR-2
1100-1200	7335	BJI	100	kW	/	255	deg	Chinese CNR-2
1100-1200	7340	URU	100	kW	/	non-dir		Kazakh PBS Xinjiang
1100-1200	7345	BEI	100	kW	/	175	deg	Chinese CNR-1
1100-1200	7350	BJI	100	kW	/	255	deg	Tibetan CNR-11
1100-1200	7365	SZG	100	kW	/	037	deg	Chinese CNR-1
1100-1200	7370	BEI	150	kW	/	270	deg	Chinese CNR-2
1100-1200	7375	BEI	150	kW	/	180	deg	Chinese CNR-2
1100-1200	7385	BEI	100	kW	/	163	deg	Chinese CNR-5
1100-1200	7385	LHA	100	kW	/	290	deg	Tibetan PBS Xizang
1100-1200	7420	HUH	050	kW	/	263	deg	Chinese PBS Nei Menggu
1100-1200	7425	XIA	150	kW	/	257	deg	Chinese CNR-2
1100-1200	7450	LHA	100	kW	/	085	deg	Chinese PBS Xizang
1100-1200	9410	BEI	100	kW	/	163	deg	Chinese CNR-5
1100-1200	9420	LIN	100	kW	/	298	deg	Uyghur CNR-13
1100-1200	9470	URU	100	kW	/	non-dir		Kazakh PBS Xinjiang
1100-1200	9480	BJI	100	kW	/	255	deg	Tibetan CNR-8
1100-1200	9500	SZG	100	kW	/	165	deg	Chinese CNR-1
1100-1200	9515	BEI	100	kW	/	163	deg	Chinese CNR-2
1100-1200	9520	HOH	050	kW	/	036	deg	Chinese PBS Nei Menggu
1100-1200	9560	URU	100	kW	/	non-dir		Uyghur PBS Xinjiang
1100-1200	9600	URU	100	kW	/	230	deg	Chinese PBS Xinjiang
1100-1200	9620	BEI	100	kW	/	163	deg	Chinese CNR-6
1100-1200	9630	GEM	100	kW	/	236	deg	Chinese CNR-1
1100-1200	9705	URU	100	kW	/	247	deg	Kyrgyz PBS Xinjiang
1100-1200	9710	SZG	100	kW	/	217	deg	Chinese CNR-1
1100-1200	9750	HOH	050	kW	/	036	deg	Mongolian PBS Nei Menggu
1100-1200	9755	BJI	100	kW	/	255	deg	Chinese CNR-2
1100-1200	9775	BEI	150	kW	/	270	deg	Chinese CNR-2
1100-1200	9810	BJI	100	kW	/	135	deg	Chinese CNR-2
1100-1200	9820	XIA	100	kW	/	290	deg	Chinese CNR-2
1100-1200	9830	BEI	100	kW	/	175	deg	Chinese CNR-1
1100-1200	9845	BEI	100	kW	/	251	deg	Chinese CNR-1
1100-1200	9860	BEI	100	kW	/	285	deg	Chinese CNR-1
1100-1200	9890	LIN	100	kW	/	286	deg	Uyghur CNR-13
1100-1200	11630	LIN	100	kW	/	286	deg	Chinese CNR-1
1100-1200	11670	BEI	100	kW	/	220	deg	Chinese CNR-2
1100-1200	11710	BEI	100	kW	/	285	deg	Chinese CNR-1
1100-1200	11740	LIN	100	kW	/	286	deg	Chinese CNR-2
1100-1200	11770	URU	050	kW	/	230	deg	Chinese PBS Xinjiang
1100-1200	11885	URU	050	kW	/	non-dir		Uyghur PBS Xinjiang
1100-1200	11925	LIN	100	kW	/	286	deg	Chinese CNR-1

1100-1200	12055	LIN	100	kW	/	298	deg	Chinese	CNR-1
1100-1200	13610	NNN	150	kW	/	155	deg	Chinese	CNR-1
1100-1200	13670	URU	050	kW	/	230	deg	Uyghur	PBS Xinjiang
1130-1200	3990	URU	100	kW	/	non-dir		Uyghur	PBS Xinjiang
1200-1230	7295	URU	100	kW	/	247	deg	Kyrgyz	PBS Xinjiang
1200-1230	9705	URU	100	kW	/	247	deg	Kyrgyz	PBS Xinjiang
1200-1230	9810	BJI	100	kW	/	135	deg	Chinese	CNR-2
1200-1230	13670	URU	050	kW	/	230	deg	Uyghur	PBS Xinjiang
1200-1300	3900	HLR	010	kW	/	non-dir		Chinese	PBS Hulun Buir
1200-1300	3950	URU	100	kW	/	non-dir		Chinese	PBS Xinjiang
1200-1300	3985	GEM	100	kW	/	non-dir		Chinese	CNR-2
1200-1300	3990	LAN	050	kW	/	non-dir		Tibetan	PBS Gannan
1200-1300	3990	URU	100	kW	/	non-dir		Uyghur	PBS Xinjiang
1200-1300	4500	URU	050	kW	/	non-dir		Mongolian	PBS Xinjiang
1200-1300	4750	HLR	010	kW	/	non-dir		Chinese	CNR-1
1200-1300	4750	XIN	050	kW	/	270	deg	Chinese	PBS Qinghai
1200-1300	4800	GEM	100	kW	/	non-dir		Chinese	CNR-1
1200-1300	4820	LHA	100	kW	/	non-dir		Chinese	PBS Xizang
1200-1300	4850	URU	100	kW	/	non-dir		Kazakh	PBS Xinjiang
1200-1300	4905	LHA	100	kW	/	non-dir		Tibetan	PBS Xizang
1200-1300	4920	LHA	100	kW	/	non-dir		Tibetan	PBS Xizang
1200-1300	4980	URU	050	kW	/	230	deg	Uyghur	PBS Xinjiang
1200-1300	5060	URU	050	kW	/	230	deg	Chinese	PBS Xinjiang
1200-1300	5925	BEI	100	kW	/	163	deg	Chinese	CNR-5
1200-1300	5935	LHA	100	kW	/	085	deg	Chinese	PBS Xizang
1200-1300	5945	BEI	100	kW	/	222	deg	Chinese	CNR-1
1200-1300	5960	URU	100	kW	/	non-dir		Chinese	PBS Xizang
1200-1300	5990	XIN	050	kW	/	206	deg	Tibetan	PBS Qinghai
1200-1300	6000	BEI	100	kW	/	non-dir		Chinese	CNR-1
1200-1300	6010	BJI	100	kW	/	255	deg	Tibetan	CNR-11
1200-1300	6015	URU	100	kW	/	non-dir		Kazakh	PBS Xinjiang
1200-1300	6020	BEI	100	kW	/	015	deg	Mongolian	CNR-8
1200-1300	6025	LHA	100	kW	/	268	deg	Tibetan	PBS Xizang
1200-1300	6030	BEI	100	kW	/	non-dir		Chinese	CNR-1
1200-1300	6035	KUN	050	kW	/	147	deg	Vietnamese	PBS Yunnan
1200-1300	6040	HUH	050	kW	/	263	deg	Mongolian	PBS Nei Menggu
1200-1300	6050	LHA	100	kW	/	290	deg	Chinese	PBS Xizang
1200-1300	6060	CDU	050	kW	/	358	deg	Tibetan	PBS Sichuan 2
1200-1300	6065	BEI	150	kW	/	220	deg	Chinese	CNR-2
1200-1300	6080	GEM	100	kW	/	236	deg	Chinese	CNR-1
1200-1300	6080	HLR	010	kW	/	non-dir		Mongolian	PBS Hulun Buir
1200-1300	6090	GEM	100	kW	/	172	deg	Chinese	CNR-2
1200-1300	6110	LHA	100	kW	/	220	deg	Tibetan	PBS Xizang
1200-1300	6120	URU	100	kW	/	non-dir		Uyghur	PBS Xinjiang
1200-1300	6125	BEI	100	kW	/	037	deg	Chinese	CNR-1

1200-1300	6125	SZG	100	kW	/	217	deg	Chinese	CNR-1
1200-1300	6130	LHA	100	kW	/	290	deg	Tibetan	PBS Xizang
1200-1300	6145	XIN	050	kW	/	270	deg	Chinese	PBS Qinghai
1200-1300	6155	BEI	150	kW	/	non-dir		Chinese	CNR-2
1200-1300	6165	BEI	100	kW	/	163	deg	Chinese	CNR-6
1200-1300	6175	BEI	100	kW	/	037	deg	Chinese	CNR-1
1200-1300	6180	LIN	100	kW	/	286	deg	Chinese	CNR-1
1200-1300	6200	LHA	100	kW	/	085	deg	Tibetan	PBS Xizang
1200-1300	7210	KUN	050	kW	/	non-dir		Vernacular	PBS Yunnan
1200-1300	7225	CDU	050	kW	/	non-dir		Tibetan	PBS Sichuan 2
1200-1300	7230	XIA	150	kW	/	non-dir		Chinese	CNR-1
1200-1300	7240	LHA	100	kW	/	290	deg	Chinese	PBS Xizang
1200-1300	7245	BEI	150	kW	/	non-dir		Chinese	CNR-2
1200-1300	7255	LHA	100	kW	/	085	deg	Tibetan	PBS Xizang
1200-1300	7270	HUH	050	kW	/	052	deg	Mongolian	PBS Nei Menggu
1200-1300	7275	BEI	100	kW	/	251	deg	Chinese	CNR-1
1200-1300	7290	BEI	100	kW	/	222	deg	Chinese	CNR-1
1200-1300	7305	SZG	100	kW	/	037	deg	Chinese	CNR-1
1200-1300	7310	URU	100	kW	/	230	deg	Chinese	PBS Xinjiang
1200-1300	7315	XIA	150	kW	/	non-dir		Chinese	CNR-2
1200-1300	7335	BJI	100	kW	/	255	deg	Chinese	CNR-2
1200-1300	7345	BEI	100	kW	/	175	deg	Chinese	CNR-1
1200-1300	7350	BJI	100	kW	/	255	deg	Tibetan	CNR-11
1200-1300	7365	SZG	100	kW	/	037	deg	Chinese	CNR-1
1200-1300	7370	BEI	150	kW	/	270	deg	Chinese	CNR-2
1200-1300	7375	BEI	150	kW	/	180	deg	Chinese	CNR-2
1200-1300	7385	BEI	100	kW	/	163	deg	Chinese	CNR-5
1200-1300	7385	LHA	100	kW	/	290	deg	Tibetan	PBS Xizang
1200-1300	7420	HUH	050	kW	/	263	deg	Chinese	PBS Nei Menggu
1200-1300	7425	XIA	150	kW	/	257	deg	Chinese	CNR-2
1200-1300	7450	LHA	100	kW	/	085	deg	Chinese	PBS Xizang
1200-1300	9410	BEI	100	kW	/	163	deg	Chinese	CNR-5
1200-1300	9420	LIN	100	kW	/	298	deg	Uyghur	CNR-13
1200-1300	9480	BJI	100	kW	/	255	deg	Tibetan	CNR-8
1200-1300	9500	SZG	100	kW	/	165	deg	Chinese	CNR-1
1200-1300	9515	BEI	100	kW	/	163	deg	Chinese	CNR-2
1200-1300	9520	HOH	050	kW	/	036	deg	Chinese	PBS Nei Menggu
1200-1300	9615	BEI	100	kW	/	286	deg	Mongolian	CNR-8
1200-1300	9620	BEI	100	kW	/	163	deg	Chinese	CNR-6
1200-1300	9630	LIN	100	kW	/	298	deg	Chinese	CNR-1
1200-1300	9710	SZG	100	kW	/	217	deg	Chinese	CNR-1
1200-1300	9750	HOH	050	kW	/	036	deg	Mongolian	PBS Nei Menggu
1200-1300	9755	BJI	100	kW	/	255	deg	Chinese	CNR-2
1200-1300	9775	BEI	150	kW	/	270	deg	Chinese	CNR-2
1200-1300	9820	XIA	100	kW	/	290	deg	Chinese	CNR-2
1200-1300	9830	BEI	100	kW	/	175	deg	Chinese	CNR-1
1200-1300	9845	BEI	100	kW	/	251	deg	Chinese	CNR-1
1200-1300	9860	BEI	100	kW	/	285	deg	Chinese	CNR-1

1200-1300	9890	LIN	100	kW	/	286	deg	Uyghur	CNR-13
1200-1300	11710	BEI	100	kW	/	285	deg	Chinese	CNR-1
1200-1300	11740	LIN	100	kW	/	286	deg	Chinese	CNR-2
1200-1300	11925	LIN	100	kW	/	286	deg	Chinese	CNR-1
1200-1300	13610	NNN	150	kW	/	155	deg	Chinese	CNR-1
1230-1300	6190	URU	050	kW	/	non-dir		Mongolian	PBS Xinjiang
1230-1300	7205	URU	100	kW	/	230	deg	Uyghur	PBS Xinjiang
1230-1300	7265	BJI	100	kW	/	135	deg	Chinese	CNR-2
1300-1400	3900	HLR	010	kW	/	non-dir		Chinese	PBS Hulun Buir
1300-1400	3950	URU	100	kW	/	non-dir		Chinese	PBS Xinjiang
1300-1400	3985	GEM	100	kW	/	non-dir		Chinese	CNR-2
1300-1400	3990	URU	100	kW	/	non-dir		Uyghur	PBS Xinjiang
1300-1400	4500	URU	050	kW	/	non-dir		Mongolian	PBS Xinjiang
1300-1400	4750	HLR	010	kW	/	non-dir		Chinese	CNR-1
1300-1400	4750	XIN	050	kW	/	270	deg	Chinese	PBS Qinghai
1300-1400	4800	GEM	100	kW	/	non-dir		Chinese	CNR-1
1300-1400	4820	LHA	100	kW	/	non-dir		Chinese	PBS Xizang
1300-1400	4850	URU	100	kW	/	non-dir		Kazakh	PBS Xinjiang
1300-1400	4905	LHA	100	kW	/	non-dir		Tibetan	PBS Xizang
1300-1400	4920	LHA	100	kW	/	non-dir		Tibetan	PBS Xizang
1300-1400	4980	URU	050	kW	/	230	deg	Uyghur	PBS Xinjiang
1300-1400	5060	URU	050	kW	/	230	deg	Chinese	PBS Xinjiang
1300-1400	5925	BEI	100	kW	/	163	deg	Chinese	CNR-5
1300-1400	5935	LHA	100	kW	/	085	deg	Chinese	PBS Xizang
1300-1400	5945	BEI	100	kW	/	222	deg	Chinese	CNR-1
1300-1400	5960	URU	100	kW	/	non-dir		Chinese	PBS Xizang
1300-1400	5990	XIN	050	kW	/	206	deg	Tibetan	PBS Qinghai
1300-1400	6000	BEI	100	kW	/	non-dir		Chinese	CNR-1
1300-1400	6010	BJI	100	kW	/	255	deg	Tibetan	CNR-11
1300-1400	6015	URU	100	kW	/	non-dir		Kazakh	PBS Xinjiang
1300-1400	6020	BEI	100	kW	/	015	deg	Mongolian	CNR-8
1300-1400	6025	LHA	100	kW	/	268	deg	Tibetan	PBS Xizang
1300-1400	6030	BEI	100	kW	/	non-dir		Chinese	CNR-1
1300-1400	6035	KUN	050	kW	/	147	deg	Chinese	PBS Yunnan
1300-1400	6040	HUH	050	kW	/	263	deg	Mongolian	PBS Nei Menggu
1300-1400	6050	LHA	100	kW	/	290	deg	Chinese	PBS Xizang
1300-1400	6060	CDU	050	kW	/	358	deg	Tibetan	PBS Sichuan 2
1300-1400	6065	BEI	150	kW	/	220	deg	Chinese	CNR-2
1300-1400	6080	GEM	100	kW	/	236	deg	Chinese	CNR-1
1300-1400	6080	HLR	010	kW	/	non-dir		Mongolian	PBS Hulun Buir
1300-1400	6090	GEM	100	kW	/	172	deg	Chinese	CNR-2
1300-1400	6110	LHA	100	kW	/	220	deg	Tibetan	PBS Xizang
1300-1400	6120	URU	100	kW	/	non-dir		Uyghur	PBS Xinjiang
1300-1400	6125	BEI	100	kW	/	037	deg	Chinese	CNR-1
1300-1400	6125	SZG	100	kW	/	217	deg	Chinese	CNR-1
1300-1400	6130	LHA	100	kW	/	290	deg	Tibetan	PBS Xizang



1300-1400	6145	XIN	050	kW	/	270	deg	Chinese PBS Qinghai
1300-1400	6155	BEI	150	kW	/	non-dir		Chinese CNR-2
1300-1400	6165	BEI	100	kW	/	163	deg	Chinese CNR-6
1300-1400	6175	BEI	100	kW	/	037	deg	Chinese CNR-1
1300-1400	6180	LIN	100	kW	/	286	deg	Chinese CNR-1
1300-1400	6190	URU	050	kW	/	non-dir		Mongolian PBS Xinjiang
1300-1400	6200	LHA	100	kW	/	085	deg	Tibetan PBS Xizang
1300-1400	7205	URU	100	kW	/	230	deg	Uyghur PBS Xinjiang
1300-1400	7210	KUN	050	kW	/	non-dir		Vernacular PBS Yunnan
1300-1400	7225	CDU	050	kW	/	non-dir		Tibetan PBS Sichuan 2
1300-1400	7230	XIA	150	kW	/	non-dir		Chinese CNR-1
1300-1400	7240	LHA	100	kW	/	290	deg	Chinese PBS Xizang
1300-1400	7245	BEI	150	kW	/	non-dir		Chinese CNR-2
1300-1400	7255	LHA	100	kW	/	085	deg	Tibetan PBS Xizang
1300-1400	7265	BJI	100	kW	/	135	deg	Chinese CNR-2
1300-1400	7270	HUH	050	kW	/	052	deg	Mongolian PBS Nei Menggu
1300-1400	7275	BEI	100	kW	/	251	deg	Chinese CNR-1
1300-1400	7290	BEI	100	kW	/	222	deg	Chinese CNR-1
1300-1400	7305	SZG	100	kW	/	037	deg	Chinese CNR-1
1300-1400	7310	URU	100	kW	/	230	deg	Chinese PBS Xinjiang
1300-1400	7315	XIA	150	kW	/	non-dir		Chinese CNR-2
1300-1400	7335	BJI	100	kW	/	255	deg	Chinese CNR-2
1300-1400	7345	BEI	100	kW	/	175	deg	Chinese CNR-1
1300-1400	7350	BJI	100	kW	/	255	deg	Tibetan CNR-11
1300-1400	7365	SZG	100	kW	/	037	deg	Chinese CNR-1
1300-1400	7370	BEI	150	kW	/	270	deg	Chinese CNR-2
1300-1400	7375	BEI	150	kW	/	180	deg	Chinese CNR-2
1300-1400	7385	BEI	100	kW	/	163	deg	Chinese CNR-5
1300-1400	7385	LHA	100	kW	/	290	deg	Tibetan PBS Xizang
1300-1400	7420	HUH	050	kW	/	263	deg	Chinese PBS Nei Menggu
1300-1400	7425	XIA	150	kW	/	257	deg	Chinese CNR-2
1300-1400	7450	LHA	100	kW	/	085	deg	Chinese PBS Xizang
1300-1400	9410	BEI	100	kW	/	163	deg	Chinese CNR-5
1300-1400	9420	LIN	100	kW	/	298	deg	Uyghur CNR-13
1300-1400	9480	BJI	100	kW	/	255	deg	Tibetan CNR-8
1300-1400	9500	SZG	100	kW	/	165	deg	Chinese CNR-1
1300-1400	9515	BEI	100	kW	/	163	deg	Chinese CNR-2
1300-1400	9520	HOH	050	kW	/	036	deg	Chinese PBS Nei Menggu
1300-1400	9615	BEI	100	kW	/	286	deg	Mongolian CNR-8
1300-1400	9620	BEI	100	kW	/	163	deg	Chinese CNR-6
1300-1400	9630	LIN	100	kW	/	298	deg	Chinese CNR-1
1300-1400	9710	SZG	100	kW	/	217	deg	Chinese CNR-1
1300-1400	9750	HOH	050	kW	/	036	deg	Mongolian PBS Nei Menggu
1300-1400	9755	BJI	100	kW	/	255	deg	Chinese CNR-2
1300-1400	9775	BEI	150	kW	/	270	deg	Chinese CNR-2
1300-1400	9810	NNN	150	kW	/	155	deg	Chinese CNR-1
1300-1400	9820	XIA	100	kW	/	290	deg	Chinese CNR-2
1300-1400	9830	BEI	100	kW	/	175	deg	Chinese CNR-1

1300-1400	9845	BEI	100	kW	/	251	deg	Chinese	CNR-1
1300-1400	9860	BEI	100	kW	/	285	deg	Chinese	CNR-1
1300-1400	9890	LIN	100	kW	/	286	deg	Uyghur	CNR-13
1300-1400	11710	BEI	100	kW	/	285	deg	Chinese	CNR-1
1300-1400	11740	LIN	100	kW	/	286	deg	Chinese	CNR-2
1300-1400	11925	LIN	100	kW	/	286	deg	Chinese	CNR-1
1400-1430	3900	HLR	010	kW	/	non-dir		Chinese	PBS Hulun Buir
1400-1430	6080	HLR	010	kW	/	non-dir		Mongolian	PBS Hulun Buir
1400-1500	3950	URU	100	kW	/	non-dir		Chinese	PBS Xinjiang
1400-1500	3985	GEM	100	kW	/	non-dir		Chinese	CNR-2
1400-1500	3990	URU	100	kW	/	non-dir		Uyghur	PBS Xinjiang
1400-1500	4500	URU	050	kW	/	non-dir		Mongolian	PBS Xinjiang
1400-1500	4750	HLR	010	kW	/	non-dir		Chinese	CNR-1
1400-1500	4750	XIN	050	kW	/	270	deg	Chinese	PBS Qinghai
1400-1500	4800	GEM	100	kW	/	non-dir		Chinese	CNR-1
1400-1500	4820	LHA	100	kW	/	non-dir		Chinese	PBS Xizang
1400-1500	4850	URU	100	kW	/	non-dir		Kazakh	PBS Xinjiang
1400-1500	4905	LHA	100	kW	/	non-dir		Tibetan	PBS Xizang
1400-1500	4920	LHA	100	kW	/	non-dir		Tibetan	PBS Xizang
1400-1500	4980	URU	050	kW	/	230	deg	Uyghur	PBS Xinjiang
1400-1500	5060	URU	050	kW	/	230	deg	Chinese	PBS Xinjiang
1400-1500	5925	BEI	100	kW	/	163	deg	Chinese	CNR-5
1400-1500	5935	LHA	100	kW	/	085	deg	Chinese	PBS Xizang
1400-1500	5945	BEI	100	kW	/	222	deg	Chinese	CNR-1
1400-1500	5960	URU	100	kW	/	non-dir		Chinese	PBS Xizang
1400-1500	5990	XIN	050	kW	/	206	deg	Tibetan	PBS Qinghai
1400-1500	6000	BEI	100	kW	/	non-dir		Chinese	CNR-1
1400-1500	6010	BJI	100	kW	/	255	deg	Tibetan	CNR-11
1400-1500	6015	URU	100	kW	/	non-dir		Kazakh	PBS Xinjiang
1400-1500	6025	LHA	100	kW	/	268	deg	Tibetan	PBS Xizang
1400-1500	6030	BEI	100	kW	/	non-dir		Chinese	CNR-1
1400-1500	6040	HUH	050	kW	/	263	deg	Mongolian	PBS Nei Menggu
1400-1500	6050	LHA	100	kW	/	290	deg	Chinese	PBS Xizang
1400-1500	6060	CDU	050	kW	/	358	deg	Tibetan	PBS Sichuan 2
1400-1500	6065	BEI	150	kW	/	220	deg	Chinese	CNR-2
1400-1500	6080	GEM	100	kW	/	236	deg	Chinese	CNR-1
1400-1500	6090	GEM	100	kW	/	172	deg	Chinese	CNR-2
1400-1500	6110	LHA	100	kW	/	220	deg	Tibetan	PBS Xizang
1400-1500	6120	URU	100	kW	/	non-dir		Uyghur	PBS Xinjiang
1400-1500	6125	BEI	100	kW	/	037	deg	Chinese	CNR-1
1400-1500	6125	SZG	100	kW	/	217	deg	Chinese	CNR-1
1400-1500	6130	LHA	100	kW	/	290	deg	Tibetan	PBS Xizang
1400-1500	6145	XIN	050	kW	/	270	deg	Chinese	PBS Qinghai
1400-1500	6155	BEI	150	kW	/	non-dir		Chinese	CNR-2
1400-1500	6165	BEI	100	kW	/	163	deg	Chinese	CNR-6
1400-1500	6175	BEI	100	kW	/	037	deg	Chinese	CNR-1

1400-1500	6180	LIN	100	kW	/	286	deg	Kazakh	CNR-8
1400-1500	6190	URU	050	kW	/	non-dir		Mongolian	PBS Xinjiang
1400-1500	6200	LHA	100	kW	/	085	deg	Tibetan	PBS Xizang
1400-1500	7205	URU	100	kW	/	230	deg	Uyghur	PBS Xinjiang
1400-1500	7210	KUN	050	kW	/	non-dir		Vernacular	PBS Yunnan
1400-1500	7225	CDU	050	kW	/	non-dir		Tibetan	PBS Sichuan 2
1400-1500	7230	XIA	150	kW	/	non-dir		Chinese	CNR-1
1400-1500	7240	LHA	100	kW	/	290	deg	Chinese	PBS Xizang
1400-1500	7245	BEI	150	kW	/	non-dir		Chinese	CNR-2
1400-1500	7255	LHA	100	kW	/	085	deg	Tibetan	PBS Xizang
1400-1500	7265	BJI	100	kW	/	135	deg	Chinese	CNR-2
1400-1500	7270	HUH	050	kW	/	052	deg	Mongolian	PBS Nei Menggu
1400-1500	7275	BEI	100	kW	/	251	deg	Chinese	CNR-1
1400-1500	7290	BEI	100	kW	/	222	deg	Chinese	CNR-1
1400-1500	7305	SZG	100	kW	/	037	deg	Chinese	CNR-1
1400-1500	7310	URU	100	kW	/	230	deg	Chinese	PBS Xinjiang
1400-1500	7315	XIA	150	kW	/	non-dir		Chinese	CNR-2
1400-1500	7335	BJI	100	kW	/	255	deg	Chinese	CNR-2
1400-1500	7345	BEI	100	kW	/	175	deg	Chinese	CNR-1
1400-1500	7350	BJI	100	kW	/	255	deg	Tibetan	CNR-11
1400-1500	7365	SZG	100	kW	/	037	deg	Chinese	CNR-1
1400-1500	7370	BEI	150	kW	/	270	deg	Chinese	CNR-2
1400-1500	7375	BEI	150	kW	/	180	deg	Chinese	CNR-2
1400-1500	7385	BEI	100	kW	/	163	deg	Chinese	CNR-5
1400-1500	7385	LHA	100	kW	/	290	deg	Tibetan	PBS Xizang
1400-1500	7420	HUH	050	kW	/	263	deg	Chinese	PBS Nei Menggu
1400-1500	7425	XIA	150	kW	/	257	deg	Chinese	CNR-2
1400-1500	7445	BEI	100	kW	/	283	deg	Kazakh	CNR-8
1400-1500	7450	LHA	100	kW	/	085	deg	Chinese	PBS Xizang
1400-1500	9410	BEI	100	kW	/	163	deg	Chinese	CNR-5
1400-1500	9420	LIN	100	kW	/	298	deg	Uyghur	CNR-13
1400-1500	9480	BJI	100	kW	/	255	deg	Tibetan	CNR-8
1400-1500	9500	SZG	100	kW	/	165	deg	Chinese	CNR-1
1400-1500	9515	BEI	100	kW	/	163	deg	Chinese	CNR-2
1400-1500	9520	HOH	050	kW	/	036	deg	Chinese	PBS Nei Menggu
1400-1500	9620	BEI	100	kW	/	163	deg	Chinese	CNR-6
1400-1500	9630	LIN	100	kW	/	298	deg	Kazakh	CNR-8
1400-1500	9645	BEI	100	kW	/	283	deg	Kazakh	CNR-8
1400-1500	9710	SZG	100	kW	/	217	deg	Chinese	CNR-1
1400-1500	9750	HOH	050	kW	/	036	deg	Mongolian	PBS Nei Menggu
1400-1500	9755	BJI	100	kW	/	255	deg	Chinese	CNR-2
1400-1500	9775	BEI	150	kW	/	270	deg	Chinese	CNR-2
1400-1500	9810	NNN	150	kW	/	155	deg	Chinese	CNR-1
1400-1500	9820	XIA	100	kW	/	290	deg	Chinese	CNR-2
1400-1500	9830	BEI	100	kW	/	175	deg	Chinese	CNR-1
1400-1500	9845	BEI	100	kW	/	251	deg	Chinese	CNR-1
1400-1500	9860	BEI	100	kW	/	285	deg	Chinese	CNR-1
1400-1500	9890	LIN	100	kW	/	286	deg	Uyghur	CNR-13

1400-1500	11710	BEI	100	kW	/	285	deg	Chinese	CNR-1
1400-1500	11740	LIN	100	kW	/	286	deg	Chinese	CNR-2
1400-1500	11925	LIN	100	kW	/	286	deg	Chinese	CNR-1
1500-1600	3950	URU	100	kW	/	non-dir		Chinese	PBS Xinjiang
1500-1600	3985	GEM	100	kW	/	non-dir		Chinese	CNR-2
1500-1600	3990	URU	100	kW	/	non-dir		Uyghur	PBS Xinjiang
1500-1600	4500	URU	050	kW	/	non-dir		Mongolian	PBS Xinjiang
1500-1600	4750	HLR	010	kW	/	non-dir		Chinese	CNR-1
1500-1600	4750	XIN	050	kW	/	270	deg	Chinese	PBS Qinghai
1500-1600	4800	GEM	100	kW	/	non-dir		Chinese	CNR-1
1500-1600	4820	LHA	100	kW	/	non-dir		Chinese	PBS Xizang
1500-1600	4850	URU	100	kW	/	non-dir		Kazakh	PBS Xinjiang
1500-1600	4905	LHA	100	kW	/	non-dir		Tibetan	PBS Xizang
1500-1600	4920	LHA	100	kW	/	non-dir		Tibetan	PBS Xizang
1500-1600	4980	URU	050	kW	/	230	deg	Uyghur	PBS Xinjiang
1500-1600	5060	URU	050	kW	/	230	deg	Chinese	PBS Xinjiang
1500-1600	5925	BEI	100	kW	/	163	deg	Chinese	CNR-5
1500-1600	5935	LHA	100	kW	/	085	deg	Chinese	PBS Xizang
1500-1600	5945	BEI	100	kW	/	222	deg	Chinese	CNR-1
1500-1600	5960	URU	100	kW	/	non-dir		Chinese	PBS Xizang
1500-1600	5990	XIN	050	kW	/	206	deg	Tibetan	PBS Qinghai
1500-1600	6000	BEI	100	kW	/	non-dir		Chinese	CNR-1
1500-1600	6010	BJI	100	kW	/	255	deg	Tibetan	CNR-11
1500-1600	6015	URU	100	kW	/	non-dir		Kazakh	PBS Xinjiang
1500-1600	6025	LHA	100	kW	/	268	deg	Tibetan	PBS Xizang
1500-1600	6030	BEI	100	kW	/	non-dir		Chinese	CNR-1
1500-1600	6040	HUH	050	kW	/	263	deg	Mongolian	PBS Nei Menggu
1500-1600	6050	LHA	100	kW	/	290	deg	Chinese	PBS Xizang
1500-1600	6065	BEI	150	kW	/	220	deg	Chinese	CNR-2
1500-1600	6080	GEM	100	kW	/	236	deg	Chinese	CNR-1
1500-1600	6090	GEM	100	kW	/	172	deg	Chinese	CNR-2
1500-1600	6110	LHA	100	kW	/	220	deg	Tibetan	PBS Xizang
1500-1600	6120	URU	100	kW	/	non-dir		Uyghur	PBS Xinjiang
1500-1600	6125	BEI	100	kW	/	037	deg	Chinese	CNR-1
1500-1600	6125	SZG	100	kW	/	217	deg	Chinese	CNR-1
1500-1600	6130	LHA	100	kW	/	290	deg	Tibetan	PBS Xizang
1500-1600	6145	LIN	100	kW	/	286	deg	Kazakh	CNR-8
1500-1600	6145	XIN	050	kW	/	270	deg	Chinese	PBS Qinghai
1500-1600	6155	BEI	150	kW	/	non-dir		Chinese	CNR-2
1500-1600	6165	BEI	100	kW	/	163	deg	Chinese	CNR-6
1500-1600	6175	BEI	100	kW	/	037	deg	Chinese	CNR-1
1500-1600	6190	URU	050	kW	/	non-dir		Mongolian	PBS Xinjiang
1500-1600	6200	LHA	100	kW	/	085	deg	Tibetan	PBS Xizang
1500-1600	7205	URU	100	kW	/	230	deg	Uyghur	PBS Xinjiang
1500-1600	7230	XIA	150	kW	/	non-dir		Chinese	CNR-1
1500-1600	7240	LHA	100	kW	/	290	deg	Chinese	PBS Xizang
1500-1600	7245	BEI	150	kW	/	non-dir		Chinese	CNR-2

1500-1600	7255	LHA	100	kW	/	085	deg	Tibetan PBS Xizang
1500-1600	7265	BJI	100	kW	/	135	deg	Chinese CNR-2
1500-1600	7270	HUH	050	kW	/	052	deg	Mongolian PBS Nei Menggu
1500-1600	7275	BEI	100	kW	/	251	deg	Chinese CNR-1
1500-1600	7290	BEI	100	kW	/	222	deg	Chinese CNR-1
1500-1600	7305	SZG	100	kW	/	037	deg	Chinese CNR-1
1500-1600	7310	URU	100	kW	/	230	deg	Chinese PBS Xinjiang
1500-1600	7315	XIA	150	kW	/	non-dir		Chinese CNR-2
1500-1600	7335	BJI	100	kW	/	255	deg	Chinese CNR-2
1500-1600	7345	BEI	100	kW	/	175	deg	Chinese CNR-1
1500-1600	7350	BJI	100	kW	/	255	deg	Tibetan CNR-11
1500-1600	7365	SZG	100	kW	/	037	deg	Chinese CNR-1
1500-1600	7370	BEI	150	kW	/	270	deg	Chinese CNR-2
1500-1600	7375	BEI	150	kW	/	180	deg	Chinese CNR-2
1500-1600	7385	BEI	100	kW	/	163	deg	Chinese CNR-5
1500-1600	7385	LHA	100	kW	/	290	deg	Tibetan PBS Xizang
1500-1600	7420	HUH	050	kW	/	263	deg	Chinese PBS Nei Menggu
1500-1600	7425	XIA	150	kW	/	257	deg	Chinese CNR-2
1500-1600	7445	BEI	100	kW	/	283	deg	Kazakh CNR-8
1500-1600	7450	LHA	100	kW	/	085	deg	Chinese PBS Xizang
1500-1600	9410	BEI	100	kW	/	163	deg	Chinese CNR-5
1500-1600	9420	LIN	100	kW	/	298	deg	Uyghur CNR-13
1500-1600	9480	BJI	100	kW	/	255	deg	Tibetan CNR-8
1500-1600	9500	SZG	100	kW	/	165	deg	Chinese CNR-1
1500-1600	9515	BEI	100	kW	/	163	deg	Chinese CNR-2
1500-1600	9520	HOH	050	kW	/	036	deg	Chinese PBS Nei Menggu
1500-1600	9620	BEI	100	kW	/	163	deg	Chinese CNR-6
1500-1600	9630	LIN	100	kW	/	298	deg	Kazakh CNR-8
1500-1600	9645	BEI	100	kW	/	283	deg	Kazakh CNR-8
1500-1600	9710	SZG	100	kW	/	217	deg	Chinese CNR-1
1500-1600	9750	HOH	050	kW	/	036	deg	Mongolian PBS Nei Menggu
1500-1600	9755	BJI	100	kW	/	255	deg	Chinese CNR-2
1500-1600	9775	BEI	150	kW	/	270	deg	Chinese CNR-2
1500-1600	9810	NNN	150	kW	/	155	deg	Chinese CNR-1
1500-1600	9820	XIA	100	kW	/	290	deg	Chinese CNR-2
1500-1600	9830	BEI	100	kW	/	175	deg	Chinese CNR-1
1500-1600	9845	BEI	100	kW	/	251	deg	Chinese CNR-1
1500-1600	9860	BEI	100	kW	/	285	deg	Chinese CNR-1
1500-1600	9890	LIN	100	kW	/	286	deg	Uyghur CNR-13
1500-1600	11710	BEI	100	kW	/	285	deg	Chinese CNR-1
1500-1600	11740	LIN	100	kW	/	286	deg	Chinese CNR-2
1500-1600	11925	LIN	100	kW	/	286	deg	Chinese CNR-1
1600-1700	3950	URU	100	kW	/	non-dir		Chinese PBS Xinjiang
1600-1700	3990	URU	100	kW	/	non-dir		Uyghur PBS Xinjiang
1600-1700	4500	URU	050	kW	/	non-dir		Mongolian PBS Xinjiang
1600-1700	4750	HLR	010	kW	/	non-dir		Chinese CNR-1
1600-1700	4800	GEM	100	kW	/	non-dir		Chinese CNR-1

1600-1700	4820	LHA	100	kW	/ non-dir	Chinese PBS Xizang
1600-1700	4850	URU	100	kW	/ non-dir	Kazakh PBS Xinjiang
1600-1700	4905	LHA	100	kW	/ non-dir	English PBS Xizang
1600-1700	4920	LHA	100	kW	/ non-dir	English PBS Xizang
1600-1700	4980	URU	050	kW	/ 230 deg	Uyghur PBS Xinjiang
1600-1700	5060	URU	050	kW	/ 230 deg	Chinese PBS Xinjiang
1600-1700	5925	BEI	100	kW	/ 163 deg	Chinese CNR-5
1600-1700	5935	LHA	100	kW	/ 085 deg	Chinese PBS Xizang
1600-1700	5945	BEI	100	kW	/ 222 deg	Chinese CNR-1
1600-1700	5960	URU	100	kW	/ non-dir	Chinese PBS Xizang
1600-1700	6000	BEI	100	kW	/ non-dir	Chinese CNR-1
1600-1700	6015	URU	100	kW	/ non-dir	Kazakh PBS Xinjiang
1600-1700	6025	LHA	100	kW	/ 268 deg	English PBS Xizang
1600-1700	6030	BEI	100	kW	/ non-dir	Chinese CNR-1
1600-1700	6050	LHA	100	kW	/ 290 deg	Chinese PBS Xizang
1600-1700	6080	GEM	100	kW	/ 236 deg	Chinese CNR-1
1600-1700	6110	LHA	100	kW	/ 220 deg	English PBS Xizang
1600-1700	6120	URU	100	kW	/ non-dir	Uyghur PBS Xinjiang
1600-1700	6125	BEI	100	kW	/ 037 deg	Chinese CNR-1
1600-1700	6125	SZG	100	kW	/ 217 deg	Chinese CNR-1
1600-1700	6130	LHA	100	kW	/ 290 deg	English PBS Xizang
1600-1700	6145	LIN	100	kW	/ 286 deg	Kazakh CNR-8
1600-1700	6145	XIN	050	kW	/ 270 deg	Chinese PBS Qinghai
1600-1700	6175	BEI	100	kW	/ 037 deg	Chinese CNR-1
1600-1700	6190	URU	050	kW	/ non-dir	Mongolian PBS Xinjiang
1600-1700	6200	LHA	100	kW	/ 085 deg	English PBS Xizang
1600-1700	7205	URU	100	kW	/ 230 deg	Uyghur PBS Xinjiang
1600-1700	7230	XIA	150	kW	/ non-dir	Chinese CNR-1
1600-1700	7240	LHA	100	kW	/ 290 deg	Chinese PBS Xizang
1600-1700	7255	LHA	100	kW	/ 085 deg	English PBS Xizang
1600-1700	7270	HUH	050	kW	/ 052 deg	Mongolian PBS Nei Menggu
1600-1700	7275	BEI	100	kW	/ 251 deg	Chinese CNR-1
1600-1700	7290	BEI	100	kW	/ 222 deg	Chinese CNR-1
1600-1700	7305	SZG	100	kW	/ 037 deg	Chinese CNR-1
1600-1700	7310	URU	100	kW	/ 230 deg	Chinese PBS Xinjiang
1600-1700	7345	BEI	100	kW	/ 175 deg	Chinese CNR-1
1600-1700	7365	SZG	100	kW	/ 037 deg	Chinese CNR-1
1600-1700	7385	BEI	100	kW	/ 163 deg	Chinese CNR-5
1600-1700	7385	LHA	100	kW	/ 290 deg	English PBS Xizang
1600-1700	7445	BEI	100	kW	/ 283 deg	Kazakh CNR-8
1600-1700	7450	LHA	100	kW	/ 085 deg	Chinese PBS Xizang
1600-1700	9410	BEI	100	kW	/ 163 deg	Chinese CNR-5
1600-1700	9420	LIN	100	kW	/ 298 deg	Uyghur CNR-13
1600-1700	9500	SZG	100	kW	/ 165 deg	Chinese CNR-1
1600-1700	9520	HOH	050	kW	/ 036 deg	Chinese PBS Nei Menggu
1600-1700	9630	LIN	100	kW	/ 298 deg	Kazakh CNR-8
1600-1700	9645	BEI	100	kW	/ 283 deg	Kazakh CNR-8
1600-1700	9710	SZG	100	kW	/ 217 deg	Chinese CNR-1

1600-1700 9810 NNN 150 kW / 155 deg Chinese CNR-1  
 1600-1700 9830 BEI 100 kW / 175 deg Chinese CNR-1  
 1600-1700 9845 BEI 100 kW / 251 deg Chinese CNR-1  
 1600-1700 9860 BEI 100 kW / 285 deg Chinese CNR-1  
 1600-1700 9890 LIN 100 kW / 286 deg Uyghur CNR-13  
 1600-1700 11710 BEI 100 kW / 285 deg Chinese CNR-1  
 1600-1700 11925 LIN 100 kW / 286 deg Chinese CNR-1

1700-1800 3950 URU 100 kW / non-dir Chinese PBS Xinjiang  
 1700-1800 3990 URU 100 kW / non-dir Uyghur PBS Xinjiang  
 1700-1800 4500 URU 050 kW / non-dir Mongolian PBS Xinjiang  
 1700-1800 4750 HLR 010 kW / non-dir Chinese CNR-1  
 1700-1800 4800 GEM 100 kW / non-dir Chinese CNR-1  
 1700-1800 4820 LHA 100 kW / non-dir Chinese PBS Xizang  
 1700-1800 4850 URU 100 kW / non-dir Kazakh PBS Xinjiang  
 1700-1800 4905 LHA 100 kW / non-dir Tibetan PBS Xizang  
 1700-1800 4920 LHA 100 kW / non-dir Tibetan PBS Xizang  
 1700-1800 4980 URU 050 kW / 230 deg Uyghur PBS Xinjiang  
 1700-1800 5060 URU 050 kW / 230 deg Chinese PBS Xinjiang  
 1700-1800 5935 LHA 100 kW / 085 deg Chinese PBS Xizang  
 1700-1800 5945 BEI 100 kW / 222 deg Chinese CNR-1  
 1700-1800 5960 URU 100 kW / non-dir Chinese PBS Xizang  
 1700-1800 6000 BEI 100 kW / non-dir Chinese CNR-1  
 1700-1800 6015 URU 100 kW / non-dir Kazakh PBS Xinjiang  
 1700-1800 6025 LHA 100 kW / 268 deg Tibetan PBS Xizang  
 1700-1800 6030 BEI 100 kW / non-dir Chinese CNR-1  
 1700-1800 6050 LHA 100 kW / 290 deg Chinese PBS Xizang  
 1700-1800 6080 GEM 100 kW / 236 deg Chinese CNR-1  
 1700-1800 6110 LHA 100 kW / 220 deg Tibetan PBS Xizang  
 1700-1800 6120 URU 100 kW / non-dir Uyghur PBS Xinjiang  
 1700-1800 6125 BEI 100 kW / 037 deg Chinese CNR-1  
 1700-1800 6125 SZG 100 kW / 217 deg Chinese CNR-1  
 1700-1800 6130 LHA 100 kW / 290 deg Tibetan PBS Xizang  
 1700-1800 6145 XIN 050 kW / 270 deg Chinese PBS Qinghai  
 1700-1800 6175 BEI 100 kW / 037 deg Chinese CNR-1  
 1700-1800 6190 URU 050 kW / non-dir Mongolian PBS Xinjiang  
 1700-1800 6200 LHA 100 kW / 085 deg Tibetan PBS Xizang  
 1700-1800 7205 URU 100 kW / 230 deg Uyghur PBS Xinjiang  
 1700-1800 7230 XIA 150 kW / non-dir Chinese CNR-1  
 1700-1800 7240 LHA 100 kW / 290 deg Chinese PBS Xizang  
 1700-1800 7255 LHA 100 kW / 085 deg Tibetan PBS Xizang  
 1700-1800 7275 BEI 100 kW / 251 deg Chinese CNR-1  
 1700-1800 7290 BEI 100 kW / 222 deg Chinese CNR-1  
 1700-1800 7305 SZG 100 kW / 037 deg Chinese CNR-1  
 1700-1800 7310 URU 100 kW / 230 deg Chinese PBS Xinjiang  
 1700-1800 7345 BEI 100 kW / 175 deg Chinese CNR-1  
 1700-1800 7365 SZG 100 kW / 037 deg Chinese CNR-1  
 1700-1800 7385 LHA 100 kW / 290 deg Tibetan PBS Xizang

1700-1800	7450	LHA	100	kW	/ 085 deg	Chinese PBS Xizang
1700-1800	9420	LIN	100	kW	/ 298 deg	Uyghur CNR-13
1700-1800	9500	SZG	100	kW	/ 165 deg	Chinese CNR-1
1700-1800	9710	SZG	100	kW	/ 217 deg	Chinese CNR-1
1700-1800	9810	NNN	150	kW	/ 155 deg	Chinese CNR-1
1700-1800	9830	BEI	100	kW	/ 175 deg	Chinese CNR-1
1700-1800	9845	BEI	100	kW	/ 251 deg	Chinese CNR-1
1700-1800	9860	BEI	100	kW	/ 285 deg	Chinese CNR-1
1700-1800	9890	LIN	100	kW	/ 286 deg	Uyghur CNR-13
1700-1800	11710	BEI	100	kW	/ 285 deg	Chinese CNR-1
1700-1800	11925	LIN	100	kW	/ 286 deg	Chinese CNR-1
1800-2000	7275	URU	100	kW	/ non-dir	Uyghur PBS Xinjiang
2000-2100	4820	LHA	100	kW	/ non-dir	Chinese PBS Xizang
2000-2100	5935	LHA	100	kW	/ 085 deg	Chinese PBS Xizang
2000-2100	6050	LHA	100	kW	/ 290 deg	Chinese PBS Xizang
2000-2100	7240	LHA	100	kW	/ 290 deg	Chinese PBS Xizang
2000-2100	7275	URU	100	kW	/ non-dir	Uyghur PBS Xinjiang
2000-2100	7450	LHA	100	kW	/ 085 deg	Chinese PBS Xizang
2030-2100	4750	HLR	010	kW	/ non-dir	Chinese CNR-1
2030-2100	4800	GEM	100	kW	/ non-dir	Chinese CNR-1
2030-2100	5945	BEI	100	kW	/ 222 deg	Chinese CNR-1
2030-2100	6000	BEI	100	kW	/ non-dir	Chinese CNR-1
2030-2100	6030	BEI	100	kW	/ non-dir	Chinese CNR-1
2030-2100	6080	GEM	100	kW	/ 236 deg	Chinese CNR-1
2030-2100	6125	BEI	100	kW	/ 037 deg	Chinese CNR-1
2030-2100	6125	SZG	100	kW	/ 217 deg	Chinese CNR-1
2030-2100	6175	BEI	100	kW	/ 037 deg	Chinese CNR-1
2030-2100	7215	SZG	100	kW	/ 037 deg	Chinese CNR-1
2030-2100	7230	XIA	150	kW	/ non-dir	Chinese CNR-1
2030-2100	7275	BEI	100	kW	/ 251 deg	Chinese CNR-1
2030-2100	7290	BEI	100	kW	/ 222 deg	Chinese CNR-1
2030-2100	7305	SZG	100	kW	/ 037 deg	Chinese CNR-1
2030-2100	7345	BEI	100	kW	/ 175 deg	Chinese CNR-1
2030-2100	9455	LIN	100	kW	/ 298 deg	Chinese CNR-1
2030-2100	9470	BEI	100	kW	/ 285 deg	Chinese CNR-1
2030-2100	9500	SZG	100	kW	/ 165 deg	Chinese CNR-1
2030-2100	9710	SZG	100	kW	/ 217 deg	Chinese CNR-1
2030-2100	9810	NNN	150	kW	/ 155 deg	Chinese CNR-1
2030-2100	9830	BEI	100	kW	/ 175 deg	Chinese CNR-1
2030-2100	9845	BEI	100	kW	/ 251 deg	Chinese CNR-1
2030-2100	11710	BEI	100	kW	/ 285 deg	Chinese CNR-1
2030-2100	11925	LIN	100	kW	/ 286 deg	Chinese CNR-1
2100-2200	4750	HLR	010	kW	/ non-dir	Chinese CNR-1
2100-2200	4800	GEM	100	kW	/ non-dir	Chinese CNR-1



2100-2200	4820	LHA	100	kW	/ non-dir	Chinese	PBS	Xizang
2100-2200	4905	LHA	100	kW	/ non-dir	Tibetan	PBS	Xizang
2100-2200	4920	LHA	100	kW	/ non-dir	Tibetan	PBS	Xizang
2100-2200	5925	BEI	100	kW	/ 163 deg	Chinese	CNR-5	
2100-2200	5935	LHA	100	kW	/ 085 deg	Chinese	PBS	Xizang
2100-2200	5945	BEI	100	kW	/ 222 deg	Chinese	CNR-1	
2100-2200	5955	BEI	100	kW	/ 063 deg	Korean	CNR-8	
2100-2200	5975	BEI	100	kW	/ 063 deg	Korean	CNR-8	
2100-2200	6000	BEI	100	kW	/ non-dir	Chinese	CNR-1	
2100-2200	6000	XIA	150	kW	/ 257 deg	Chinese	CNR-2	
2100-2200	6025	LHA	100	kW	/ 268 deg	Tibetan	PBS	Xizang
2100-2200	6030	BEI	100	kW	/ non-dir	Chinese	CNR-1	
2100-2200	6040	BEI	100	kW	/ 180 deg	Chinese	CNR-2	
2100-2200	6050	LHA	100	kW	/ 290 deg	Chinese	PBS	Xizang
2100-2200	6065	BEI	150	kW	/ 220 deg	Chinese	CNR-2	
2100-2200	6080	GEM	100	kW	/ 236 deg	Chinese	CNR-1	
2100-2200	6090	GEM	100	kW	/ 172 deg	Chinese	CNR-2	
2100-2200	6110	LHA	100	kW	/ 220 deg	Tibetan	PBS	Xizang
2100-2200	6125	BEI	100	kW	/ 037 deg	Chinese	CNR-1	
2100-2200	6125	SZG	100	kW	/ 217 deg	Chinese	CNR-1	
2100-2200	6130	LHA	100	kW	/ 290 deg	Tibetan	PBS	Xizang
2100-2200	6155	BEI	150	kW	/ non-dir	Chinese	CNR-2	
2100-2200	6175	BEI	100	kW	/ 037 deg	Chinese	CNR-1	
2100-2200	6190	GEM	100	kW	/ non-dir	Chinese	CNR-2	
2100-2200	6200	LHA	100	kW	/ 085 deg	Tibetan	PBS	Xizang
2100-2200	7215	SZG	100	kW	/ 037 deg	Chinese	CNR-1	
2100-2200	7230	XIA	150	kW	/ non-dir	Chinese	CNR-1	
2100-2200	7240	LHA	100	kW	/ 290 deg	Chinese	PBS	Xizang
2100-2200	7245	BEI	150	kW	/ non-dir	Chinese	CNR-2	
2100-2200	7255	LHA	100	kW	/ 085 deg	Tibetan	PBS	Xizang
2100-2200	7255	BJI	100	kW	/ 135 deg	Chinese	CNR-2	
2100-2200	7275	BEI	100	kW	/ 251 deg	Chinese	CNR-1	
2100-2200	7290	BEI	100	kW	/ 222 deg	Chinese	CNR-1	
2100-2200	7305	SZG	100	kW	/ 037 deg	Chinese	CNR-1	
2100-2200	7315	XIA	150	kW	/ non-dir	Chinese	CNR-2	
2100-2200	7335	BJI	100	kW	/ 255 deg	Chinese	CNR-2	
2100-2200	7345	BEI	100	kW	/ 175 deg	Chinese	CNR-1	
2100-2200	7355	BEI	100	kW	/ 163 deg	Chinese	CNR-5	
2100-2200	7375	BEI	150	kW	/ 270 deg	Chinese	CNR-2	
2100-2200	7385	LHA	100	kW	/ 290 deg	Tibetan	PBS	Xizang
2100-2200	7450	LHA	100	kW	/ 085 deg	Chinese	PBS	Xizang
2100-2200	9455	LIN	100	kW	/ 298 deg	Chinese	CNR-1	
2100-2200	9470	BEI	100	kW	/ 285 deg	Chinese	CNR-1	
2100-2200	9500	SZG	100	kW	/ 165 deg	Chinese	CNR-1	
2100-2200	9515	BEI	100	kW	/ 163 deg	Chinese	CNR-2	
2100-2200	9665	BEI	100	kW	/ 163 deg	Chinese	CNR-5	
2100-2200	9710	SZG	100	kW	/ 217 deg	Chinese	CNR-1	
2100-2200	9755	BJI	100	kW	/ 255 deg	Chinese	CNR-2	

2100-2200 9775 BEI 150 kW / 270 deg Chinese CNR-2  
 2100-2200 9810 NNN 150 kW / 155 deg Chinese CNR-1  
 2100-2200 9820 XIA 100 kW / 290 deg Chinese CNR-2  
 2100-2200 9830 BEI 100 kW / 175 deg Chinese CNR-1  
 2100-2200 9845 BEI 100 kW / 251 deg Chinese CNR-1  
 2100-2200 11710 BEI 100 kW / 285 deg Chinese CNR-1  
 2100-2200 11740 LIN 100 kW / 286 deg Chinese CNR-2  
 2100-2200 11925 LIN 100 kW / 286 deg Chinese CNR-1

2130-2200 3900 HLR 010 kW / non-dir Chinese PBS Hulun Buir

2200-2300 3900 HLR 010 kW / non-dir Chinese PBS Hulun Buir  
 2200-2300 4750 XIN 050 kW / 270 deg Chinese PBS Qinghai  
 2200-2300 4750 HLR 010 kW / non-dir Chinese CNR-1  
 2200-2300 4800 GEM 100 kW / non-dir Chinese CNR-1  
 2200-2300 4820 LHA 100 kW / non-dir Chinese PBS Xizang  
 2200-2300 4905 LHA 100 kW / non-dir Tibetan PBS Xizang  
 2200-2300 4920 LHA 100 kW / non-dir Tibetan PBS Xizang  
 2200-2300 5925 BEI 100 kW / 163 deg Chinese CNR-5  
 2200-2300 5935 LHA 100 kW / 085 deg Chinese PBS Xizang  
 2200-2300 5945 BEI 100 kW / 222 deg Chinese CNR-1  
 2200-2300 5955 BEI 100 kW / 063 deg Korean CNR-8  
 2200-2300 5975 BEI 100 kW / 063 deg Korean CNR-8  
 2200-2300 6000 BEI 100 kW / non-dir Chinese CNR-1  
 2200-2300 6000 XIA 150 kW / 257 deg Chinese CNR-2  
 2200-2300 6010 BJI 100 kW / 255 deg Tibetan CNR-11  
 2200-2300 6025 LHA 100 kW / 268 deg Tibetan PBS Xizang  
 2200-2300 6030 BEI 100 kW / non-dir Chinese CNR-1  
 2200-2300 6040 BEI 100 kW / 180 deg Chinese CNR-2  
 2200-2300 6040 HUH 050 kW / 263 deg Mongolian PBS Nei Menggu  
 2200-2300 6050 LHA 100 kW / 290 deg Chinese PBS Xizang  
 2200-2300 6060 CDU 050 kW / 358 deg Tibetan PBS Sichuan 2  
 2200-2300 6065 BEI 150 kW / 220 deg Chinese CNR-2  
 2200-2300 6080 HLR 010 kW / non-dir Mongolian PBS Hulun Buir  
 2200-2300 6080 GEM 100 kW / 236 deg Chinese CNR-1  
 2200-2300 6090 GEM 100 kW / 172 deg Chinese CNR-2  
 2200-2300 6110 LHA 100 kW / 220 deg Tibetan PBS Xizang  
 2200-2300 6125 BEI 100 kW / 037 deg Chinese CNR-1  
 2200-2300 6125 SZG 100 kW / 217 deg Chinese CNR-1  
 2200-2300 6130 LHA 100 kW / 290 deg Tibetan PBS Xizang  
 2200-2300 6145 XIN 050 kW / 270 deg Chinese PBS Qinghai  
 2200-2300 6155 BEI 150 kW / non-dir Chinese CNR-2  
 2200-2300 6165 BEI 100 kW / 163 deg Amoy CNR-6  
 2200-2300 6175 BEI 100 kW / 037 deg Chinese CNR-1  
 2200-2300 6190 GEM 100 kW / non-dir Chinese CNR-2  
 2200-2300 6200 LHA 100 kW / 085 deg Tibetan PBS Xizang  
 2200-2300 7215 SZG 100 kW / 037 deg Chinese CNR-1  
 2200-2300 7225 CDU 050 kW / non-dir Tibetan PBS Sichuan 2

2200-2300	7230	XIA	150	kW	/ non-dir	Chinese	CNR-1
2200-2300	7240	LHA	100	kW	/ 290 deg	Chinese	PBS Xizang
2200-2300	7245	BEI	150	kW	/ non-dir	Chinese	CNR-2
2200-2300	7255	LHA	100	kW	/ 085 deg	Tibetan	PBS Xizang
2200-2300	7255	BJI	100	kW	/ 135 deg	Chinese	CNR-2
2200-2300	7270	HUH	050	kW	/ 052 deg	Mongolian	PBS Nei Menggu
2200-2300	7275	BEI	100	kW	/ 251 deg	Chinese	CNR-1
2200-2300	7290	BEI	100	kW	/ 222 deg	Chinese	CNR-1
2200-2300	7315	XIA	150	kW	/ non-dir	Chinese	CNR-2
2200-2300	7335	BJI	100	kW	/ 255 deg	Chinese	CNR-2
2200-2300	7345	BEI	100	kW	/ 175 deg	Chinese	CNR-1
2200-2300	7355	BEI	100	kW	/ 163 deg	Chinese	CNR-5
2200-2300	7360	BJI	100	kW	/ 255 deg	Tibetan	CNR-11
2200-2300	7375	BEI	150	kW	/ 270 deg	Chinese	CNR-2
2200-2300	7385	LHA	100	kW	/ 290 deg	Tibetan	PBS Xizang
2200-2300	7420	HUH	050	kW	/ 263 deg	Chinese	PBS Nei Menggu
2200-2300	7450	LHA	100	kW	/ 085 deg	Chinese	PBS Xizang
2200-2300	9455	LIN	100	kW	/ 298 deg	Chinese	CNR-1
2200-2300	9470	BEI	100	kW	/ 285 deg	Chinese	CNR-1
2200-2300	9480	BJI	100	kW	/ 255 deg	Tibetan	CNR-8
2200-2300	9500	SZG	100	kW	/ 165 deg	Chinese	CNR-1
2200-2300	9515	BEI	100	kW	/ 163 deg	Chinese	CNR-2
2200-2300	9520	HOH	050	kW	/ 036 deg	Chinese	PBS Nei Menggu
2200-2300	9665	BEI	100	kW	/ 163 deg	Chinese	CNR-5
2200-2300	9710	SZG	100	kW	/ 217 deg	Chinese	CNR-1
2200-2300	9730	BEI	100	kW	/ 163 deg	Amoy	CNR-6
2200-2300	9750	HOH	050	kW	/ 036 deg	Mongolian	PBS Nei Menggu
2200-2300	9755	BJI	100	kW	/ 255 deg	Chinese	CNR-2
2200-2300	9775	BEI	150	kW	/ 270 deg	Chinese	CNR-2
2200-2300	9810	NNN	150	kW	/ 155 deg	Chinese	CNR-1
2200-2300	9820	XIA	100	kW	/ 290 deg	Chinese	CNR-2
2200-2300	9830	BEI	100	kW	/ 175 deg	Chinese	CNR-1
2200-2300	9845	BEI	100	kW	/ 251 deg	Chinese	CNR-1
2200-2300	11710	BEI	100	kW	/ 285 deg	Chinese	CNR-1
2200-2300	11740	LIN	100	kW	/ 286 deg	Chinese	CNR-2
2200-2300	11750	SZG	100	kW	/ 037 deg	Chinese	CNR-1
2200-2300	11925	LIN	100	kW	/ 286 deg	Chinese	CNR-1
2230-2300	6035	KUN	050	kW	/ 147 deg	Vietnamese	PBS Yunnan
2300-2330	6065	BEI	150	kW	/ 220 deg	Chinese	CNR-2
2300-2330	9710	SZG	100	kW	/ 217 deg	Chinese	CNR-1
2300-2400	3900	HLR	010	kW	/ non-dir	Chinese	PBS Hulun Buir
2300-2400	3950	URU	100	kW	/ non-dir	Chinese	PBS Xinjiang
2300-2400	3990	LAN	050	kW	/ non-dir	Chinese	PBS Gannan
2300-2400	3990	URU	100	kW	/ non-dir	Uyghur	PBS Xinjiang
2300-2400	4750	XIN	050	kW	/ 270 deg	Chinese	PBS Qinghai
2300-2400	4750	HLR	010	kW	/ non-dir	Chinese	CNR-1

2300-2400	4800	GEM	100	kW	/ non-dir	Chinese	CNR-1
2300-2400	4820	LHA	100	kW	/ non-dir	Chinese	PBS Xizang
2300-2400	4905	LHA	100	kW	/ non-dir	Tibetan	PBS Xizang
2300-2400	4920	LHA	100	kW	/ non-dir	Tibetan	PBS Xizang
2300-2400	5925	BEI	100	kW	/ 163 deg	Chinese	CNR-5
2300-2400	5935	LHA	100	kW	/ 085 deg	Chinese	PBS Xizang
2300-2400	5945	BEI	100	kW	/ 222 deg	Chinese	CNR-1
2300-2400	5955	BEI	100	kW	/ 015 deg	Mongolian	CNR-8
2300-2400	5990	XIN	050	kW	/ 206 deg	Tibetan	PBS Qinghai
2300-2400	6000	BEI	100	kW	/ non-dir	Chinese	CNR-1
2300-2400	6000	XIA	150	kW	/ 257 deg	Chinese	CNR-2
2300-2400	6010	BJI	100	kW	/ 255 deg	Tibetan	CNR-11
2300-2400	6015	URU	100	kW	/ non-dir	Kazakh	PBS Xinjiang
2300-2400	6025	LHA	100	kW	/ 268 deg	Tibetan	PBS Xizang
2300-2400	6030	BEI	100	kW	/ non-dir	Chinese	CNR-1
2300-2400	6035	KUN	050	kW	/ 147 deg	Chinese	PBS Yunnan
2300-2400	6040	BEI	100	kW	/ 180 deg	Chinese	CNR-2
2300-2400	6040	HUH	050	kW	/ 263 deg	Mongolian	PBS Nei Menggu
2300-2400	6050	LHA	100	kW	/ 290 deg	Chinese	PBS Xizang
2300-2400	6060	CDU	050	kW	/ 358 deg	Tibetan	PBS Sichuan 2
2300-2400	6080	GEM	100	kW	/ 236 deg	Chinese	CNR-1
2300-2400	6080	HLR	010	kW	/ non-dir	Mongolian	PBS Hulun Buir
2300-2400	6090	GEM	100	kW	/ 172 deg	Chinese	CNR-2
2300-2400	6110	LHA	100	kW	/ 220 deg	Tibetan	PBS Xizang
2300-2400	6125	SZG	100	kW	/ 217 deg	Chinese	CNR-1
2300-2400	6130	LHA	100	kW	/ 290 deg	Tibetan	PBS Xizang
2300-2400	6145	XIN	050	kW	/ 270 deg	Chinese	PBS Qinghai
2300-2400	6155	BEI	150	kW	/ non-dir	Chinese	CNR-2
2300-2400	6165	BEI	100	kW	/ 163 deg	Amoy	CNR-6
2300-2400	6175	BEI	100	kW	/ 037 deg	Chinese	CNR-1
2300-2400	6190	GEM	100	kW	/ non-dir	Chinese	CNR-2
2300-2400	6190	URU	050	kW	/ non-dir	Mongolian	PBS Xinjiang
2300-2400	6200	LHA	100	kW	/ 085 deg	Tibetan	PBS Xizang
2300-2400	7215	SZG	100	kW	/ 037 deg	Chinese	CNR-1
2300-2400	7225	CDU	050	kW	/ non-dir	Tibetan	PBS Sichuan 2
2300-2400	7230	XIA	150	kW	/ non-dir	Chinese	CNR-1
2300-2400	7240	LHA	100	kW	/ 290 deg	Chinese	PBS Xizang
2300-2400	7245	BEI	150	kW	/ non-dir	Chinese	CNR-2
2300-2400	7255	LHA	100	kW	/ 085 deg	Tibetan	PBS Xizang
2300-2400	7255	BJI	100	kW	/ 135 deg	Chinese	CNR-2
2300-2400	7270	HUH	050	kW	/ 052 deg	Mongolian	PBS Nei Menggu
2300-2400	7275	BEI	100	kW	/ 251 deg	Chinese	CNR-1
2300-2400	7290	BEI	100	kW	/ 222 deg	Chinese	CNR-1
2300-2400	7315	XIA	150	kW	/ non-dir	Chinese	CNR-2
2300-2400	7335	BJI	100	kW	/ 255 deg	Chinese	CNR-2
2300-2400	7345	BEI	100	kW	/ 175 deg	Chinese	CNR-1
2300-2400	7355	BEI	100	kW	/ 163 deg	Chinese	CNR-5
2300-2400	7360	BJI	100	kW	/ 255 deg	Tibetan	CNR-11

2300-2400 7375 BEI 150 kW / 270 deg Chinese CNR-2  
 2300-2400 7385 LHA 100 kW / 290 deg Tibetan PBS Xizang  
 2300-2400 7420 HUH 050 kW / 263 deg Chinese PBS Nei Menggu  
 2300-2400 7445 BEI 100 kW / 286 deg Mongolian CNR-8  
 2300-2400 7450 LHA 100 kW / 085 deg Chinese PBS Xizang  
 2300-2400 9470 BEI 100 kW / 285 deg Chinese CNR-1  
 2300-2400 9455 LIN 100 kW / 298 deg Chinese CNR-1  
 2300-2400 9480 BJI 100 kW / 255 deg Tibetan CNR-8  
 2300-2400 9500 SZG 100 kW / 165 deg Chinese CNR-1  
 2300-2400 9515 BEI 100 kW / 163 deg Chinese CNR-2  
 2300-2400 9520 HOH 050 kW / 036 deg Chinese PBS Nei Menggu  
 2300-2400 9665 BEI 100 kW / 163 deg Chinese CNR-5  
 2300-2400 9675 BEI 100 kW / 037 deg Chinese CNR-1  
 2300-2400 9730 BEI 100 kW / 163 deg Amoy CNR-6  
 2300-2400 9750 HOH 050 kW / 036 deg Mongolian PBS Nei Menggu  
 2300-2400 9755 BJI 100 kW / 255 deg Chinese CNR-2  
 2300-2400 9775 BEI 150 kW / 270 deg Chinese CNR-2  
 2300-2400 9820 XIA 100 kW / 290 deg Chinese CNR-2  
 2300-2400 9830 BEI 100 kW / 175 deg Chinese CNR-1  
 2300-2400 9845 BEI 100 kW / 251 deg Chinese CNR-1  
 2300-2400 11710 BEI 100 kW / 285 deg Chinese CNR-1  
 2300-2400 11740 LIN 100 kW / 286 deg Chinese CNR-2  
 2300-2400 11750 SZG 100 kW / 037 deg Chinese CNR-1  
 2300-2400 11925 LIN 100 kW / 286 deg Chinese CNR-1  
 2300-2400 13610 NNN 150 kW / 155 deg Chinese CNR-1

2330-2400 4500 URU 050 kW / non-dir Mongolian PBS Xinjiang  
 2330-2400 4850 URU 100 kW / non-dir Kazakh PBS Xinjiang  
 2330-2400 4980 URU 050 kW / 230 deg Uyghur PBS Xinjiang  
 2330-2400 5060 URU 050 kW / 230 deg Chinese PBS Xinjiang  
 2330-2400 5960 URU 100 kW / non-dir Chinese PBS Xizang  
 2330-2400 6015 URU 100 kW / non-dir Kazakh PBS Xinjiang  
 2330-2400 6120 URU 100 kW / non-dir Uyghur PBS Xinjiang  
 2330-2400 7205 URU 100 kW / 230 deg Uyghur PBS Xinjiang  
 2330-2400 11670 BEI 100 kW / 220 deg Chinese CNR-2  
 2330-2400 11720 SZG 100 kW / 217 deg Chinese CNR-1

--

73! (Ivo Ivanov, QTH: Sofia, Bulgaria  
 Equipment: Sony ICF-2001D 30 m. long wire  
 New email: ivo.observer@gmail.com  
 DX LISTENING DIGEST)

\*\* COLOMBIA. 690.00, W Radio, Bogot·, 28/11 2350-0020, 22222, px W  
 Deporte, news deportivas, ID iEn Bogot·, se vive, se siente, se  
 escucha, por W deporte, 690 AM·i ID iW deporte, 690 AM, W radioooi.  
 (Pedro F. Arrun·tegui, Lima, Dec Chasqui DX, DX LISTENING DIGEST)

\*\* COLOMBIA. 5909.92, Alcarav·n Radio, Puerto Lleras, 4/12 0540-0610,

33333, mx, ID "Alcarav·n radioî 200 [? sic] mx, ID i5910 Alcarav·n Radioî, mx (Pedro F. Arrun·tegui, Lima, Dec Chasqui DX, DX LISTENING DIGEST)

\*\* COLOMBIA [non]. USA: Radio Ciudad Global --- 9955, R. Ciudad Global via Okeechobee, FL. New service on Sats only at s/on 1200. The station is based in Colombia. Full Spanish ID at s/on including this brief English ID as:

"This is Global City Radio, Radio Ciudad Global, the first international station from Colombia. Radio Ciudad Global is an international radio initiative from Colombia. Contact us at Radio Ciudad Global at gmail dot com."

Then programming continued in Spanish with Colombian and regional news, produced in Bogot·. Occasional music interludes. Then a documentary program on "La Guerra de la Radio" (The Radio War) produced by Señal Radio Colombia, complete with excerpts of old radio broadcasts. Fair reception considering that Australia is not really in the line of fire for this broadcast. Final ID and s/off at 1229 on Dec. 14.

Here is the link to the broadcast excerpt as recorded here in Melbourne a few nights ago:  
<http://medxr.blogspot.com.au/2013/12/radio-ciudad-global-new-broadcast.html>

73, (Rob VK3BVW Wagner, Dec 17, <http://www.medxr.blogspot.com>  
ARDXC mailing list via WORLD OF RADIO 1700, DXLD) I.e. via WRMI (gh)

\*\* CUBA. 910, Radio Metropolitana, Villa Marïa, Ciudad de la Habana. 1830 December 8, 2013. Coming out of the Noticiero Nacional de Radio feed at 1330 or 1:30 p.m. Local, with canned ID, into produced program on Nelson Mandela with some excellent South African choral music between the praise talk. Excellent daytime signal as always. 1902 ID mentioned iEmisora COCOî so possibly this was also being fed on 980 kHz. But too much iBOC splash from local 970 WFLA to confirm. Transmitter off 1906-1907.

910, Radio Cadena Agramonte, Camag·ey, Camag·ey. 0452 December 9, 2013. Checking on David Crawford's text message that he heard a Radio Ciudad de la Habana ID here. Cadena Agramonte with iprograma especial Nelson Mandelaî and a weak Radio Metropolitana weak under. Cuban anthem 0500, with Metropolitana starting the anthem about 30 seconds later. At 0503, a clear mention of Radio Ciudad de la Habana. Suspect it was a jointly carried program or mention of something shared but needs more monitoring to confirm there's not a Ciudad de la Habana here.

930, Radio Reloj, Ciego de Ávila, Ciego de Ávila. 2217 December 10, 2013. Weak under WLSS, Sarasota. Presumed site based on logging time.

Radio Musical Nacional CMBF. Their website <http://www.cmbfradio.cu> has a Flash header, right side, listing (too fast) their frequencies by province and that one quasi province. Note that Artemisa, Mayabeque and Holguín are excluded, apparently coverage is OK from adjacent locations. And note that two listed here are on the Old School Commie non-standard North America FM channel offsets (point six):

Pinar del Río ñ 99.7 FM; La Habana ñ 590 / 99.1 FM; Matanzas ñ 93.7 FM; Cienfuegos ñ 92.7 FM; Villa Clara ñ 1140 / 100.7 FM; Sancti Spiritus ñ 93.9 FM; Ciego de Ávila ñ 91.5 FM; Camagüey ñ 97.5 FM; Las Tunas ñ 98.3 FM; Granma ñ 92.7 FM; Santiago de Cuba ñ 100.3 FM; Guantánamo ñ 93.6 FM; Isla de la Juventud ñ 96.6 FM  
(Terry L Krueger, Clearwater, Florida, JRC NRD-535; JRC-NRD-515 (borrowed); ICOM IC-R75; Hammarlund HQ-180A; Sony ICF-7600GR; Sangean PR-D5; Aqua Guide 705 RDF Marine Radio; GE Superadio III; JPS NF-60 Notch Filter; JPS ANC-4 Noise Phase; 1 X roof dipole; 1 X room random wire; Terk Advantage non-active portable loop, DX LISTENING DIGEST)

\*\* CUBA. 6165, Dec 12 at 0102, RHC English is still dead air here, while it's underway but undermodulated on 6000.

Some RHC frequencies are missing Dec 12 at 1408, and apparently off rather than not propagating, as other stations are in normally: 17730, 17580 (just IBB Germany), 15230, 13780. But RHC is hearable on 15340, 11860, 11760 with CCI, 11690, 9540. At 1411 a carrier on 11750 becomes just barely RHC-modulated.

6000, Dec 13 at 0645, RHC in wrong language, Spanish instead of English, while the other four overkill frequencies remain in English, 5040, 6060, 6100, 6165. From ``fin de noticias`` into ``deportes``. Lucky Spanish, gets to be on the air at all after 0600 scheduled closedown on all frequencies (Glenn Hauser, OK, DX LISTENING DIGEST)

\*\* CUBA. Additional, unscheduled time of Radio Habana Cuba on 11750: 1300-1400 11750^HAB 100 kW / 160 deg SoAm Spanish scheduled 1400-1600  
\* co-ch Voice of America in English Sat/Sun. From Dec. 9 at 1200 UT Radio Habana Cuba announcement summer time/frequencies  
(Ivo Ivanov, DX RE MIX NEWS #823, December 13, 2013 via DXLD)

\*\* CUBA. RHC 13740 kHz --- RADIO HABANA CUBA PARA ESPAÑA DE 21 A 23 UTC EN 13740 KHZ.

Estimado Vicent: Acepte el fraterno saludo del colectivo de Radio Habana Cuba, que se honra con su amistad y atención. Como nuestro sitio en internet se encuentra en proceso de modificación, le

informamos que, para su zona geogr·fica, transmitimos mediante la Frecuencia 13740, cuya Banda es de 22 metros. Ojal· que lo ayude a sintonizarnos con buena calidad. Con el mayor afecto, nos despedimos.

Rosario Lafita Fern·ndez  
J'Dpto. de Correspondencia Internacional  
Radio Habana Cuba (via Vicent Mari, Dec 11, noticiasdx yg via DXLD

?? At 22-24, 13680 had been to Europe, 13740 to S America (gh, DXLD)

Presumed RHC on 10100 1341 14 December 2013 --- Apparently the wrong frequency keyed into one of the RHC transmitters. Very strong here 1341 (Robert LaFore, Dec 14, dxldyg via WORLD OF RADIO 1700, DX LISTENING DIGEST)

Yes, on 10100 is Radio Habana Cuba in Spanish, instead of traditional 11760. All other frequencies of Radio Habana Cuba in Spanish are on air at 1500 UT, 9540, 11690, 11750, 11760, 11860, 13780, 15230, 15340, 17580 and 17730. Using remote receivers in USA and Canada (Ivo Ivanov, 1505 UT, ibid., WORLD OF RADIO 1700) Another 10100 just below:

10100, Radio Habana Cuba; 2059-2128:54\*, 14-Dec; Latino music to 2100 RHC ID into French news; ID again at 2111+ into variety music program -- from classical to cubano. Off abruptly in mid-tune. SIO=4+44 with weak clatter QRM & brief tone at 2118+. Nothing on 5050 on which RHC has nothing listed. RHC listed for French at 2100 on 11760 & 11880. Upscrew?

9250, Radio Habana Cuba; 1344, 15-Dec; M in Spanish with Latino music. SIO=2+52+. Mixing product between 9550, S30 & 9850 S20. 9550 - (9850 - 9550) = 9250; centers about 9250.05 (Harold Frodge, M.A.R.E. DXpedition, Brighton MI, Drake R8B + 500' NEish unterminated bev + 85' TTFD, All logged by my ears, on my receiver, in real time! WORLD OF RADIO 1700, DX LISTENING DIGEST)

5040, Dec 16 at 0620, in 'DXers Unlimited', Arnie Coro admits he records the show at home as he mixes it with other activities. That explains the telco-degraded audio quality in the body of his shows, vs the studio-quality open & close. He previously denied that he phoned it in {not that there's anything wrong with that}, insisting that he goes to studio and filters his voice there for better(?) readability.

11880, Dec 16 at 2141, RHC has finally resumed Portuguese during this semihour (to Africa), instead of repeating the 2100 French broadcast; but something else has to be wrong! 11760 is // 11880 in Portuguese, when 11760 is supposed to be off the air after its 2100 French to Americas.



6060, Dec 18 at 0638, RHC English here is open carrier/dead air making the het from Brasil(?) easier to hear. Then the transmitter breaks off the air for a few seconds, returns still dead. Meanwhile the overkill other English frequencies: 6100 is undermodulated as usual, while 5040, 6000 and 6165 are nominal.

17730, Dec 18 at 1452, RHC Spanish is gone again from its second 16m frequency in the mornings, still poor on 17580 with the usual IBB CCI (Glenn Hauser, OK, DX LISTENING DIGEST)

\*\* CUBA. Apparent ``New`` Frequency for HM01 at 0600 UT and Vocal Difficulties --- Since the beginning of this week, I have monitored the 0600 UTC broadcast of the Cuban numbers station that I mentioned earlier, and have sent more recent logs (of all frequencies monitored) to the folks at the Numbers and Oddities newsletter <http://numbersoddities.nl/newsletters.html> via Ary Boender <ary@luna.nl>. As part of those logs, I have noticed that Instead of the posted frequency of 10345 kHz, the broadcast for 0600 UT is apparently DAILY (will continue to check on this as the week goes on) at 11435 kHz (a frequency which is listed for use at 1600, which I have also monitored separately at that time).

Without a digital readout, I can not be certain if the 11435 number is exact (or if I'm somehow getting an image of 10345 at 11435 on my inexpensive portable radio); therefore, if anyone in the DXLD universe can verify the exact frequency for the Cuban Lady Numbers Station at 0600- 0655 UT, I would appreciate it. If my report can be independently verified, we may have to notify Aoki via his site at <http://www.geocities.jp/binewsjp/> about this change so his listings and those of <http://www.short-wave.info> can be updated if necessary.

While I'm aware that Cuban frequencies may be off at times, (at least) two days in a row at the same off listing frequency may be a trend to watch out for at 0600 UT (1:00 AM on the East Coast of the USA) for this transmission. It actually makes sense (since 10345 is off band, while the 11345 frequency is on the 25 meter band -- and is at least familiar to those punching in the numbers.

Other notes: It seems that the number "9" (nueve in Spanish) never seems to be used during any of their transmissions. Does this indicate that the Cuban voice module can't generate a decently audible sound for them to be able to use it? Or have I just missed days and times when they have used it?

In a similar vein, the number "3" (tres) sounds much lower than the other numbers when used in a 5 digit number group. One may suppose (based on the first note) that this number will become the the next one to become unusable for the Cubans on SW. [I am assuming that

replacement parts for this 30+ year old former East German machine are hard to come by these days.] (Shawn Fahrer, NYC, USA, Merry Dxmas and to all, 73s, Dec 18, dxldyg via DX LISTENING DIGEST)

\*\* CUBA [non]. ??UNID??? 9490, Tentative Radio Rep'blica in Spanish, S=9+25dB here in Germany. Some literature theatre RADIO PLAY soap about problemas and amore, also bad weather, in progress by two actors, female and male announcer. 0140 UT Dec 15. Issoudun France origin? (Wolfgang B,schel, wwdxc BC-DX TopNews Dec 15, dxldyg via DXLD) Surely (gh)

\*\* DIEGO GARCIA. 12759-USB, Dec 15 at 0139, trace of music, i.e. AFN. Takes a very good opening for this last remnant of AFRTS on SW to become readable (Glenn Hauser, OK, WORLD OF RADIO 1700, DX LISTENING DIGEST)

BRITISH INDIAN OCEAN TERRITORY, 12759/USB, U.S. Armed Forces Network; 0115-0135+, 15-Dec; Saturday Night [sic] rock music program; 0129 PSA string including one for the FBI; 0134 Civil War feature on the Battle of Mobile Bay; 0134+ "Today on AFN". SIO=152+. Also 1203, 15-Dec with mortgage spot, into ESPN program. SIO=152+ (Harold Frodge, M.A.R.E. DXpedition, Brighton MI, Drake R8B + 500' NEish unterminated bev + 85' TTFD, All logged by my ears, on my receiver, in real time! WORLD OF RADIO 1700, DX LISTENING DIGEST)

\*\* EAST TURKISTAN. 9795, Dec 16 at 1403, news in English with American accent, so probably CRI --- yes, 500 kW, 308 degrees from Urumqi, per HFCC this hour only, 14-15. Deep in the sideband splash from 9800 VOA Philippines in Korean (Glenn Hauser, OK, DX LISTENING DIGEST) see also unid 9070

\*\* ECUADOR. 1030.00, R. Eco Antena, Guayaquil; 1/12 0235-0302, 22222, mx px, 101.3 FM y 1030 kHz, la Beta Radio, mx, ID iEco Antena 1030 est· contigo en entretenimiento (Pedro F. Arrun·tegui, Lima, Dec Chasqui DX, DX LISTENING DIGEST)

\*\* ECUADOR. 4781.7, HCLE7 Radio Oriental; 2314, 13-Dec; M in Spanish with vocal tune to R.O. ID at 2316, into peppy promos. Poor (Harold Frodge, M.A.R.E. DXpedition, Brighton MI, Drake R8B + 500' NEish unterminated bev + 85' TTFD, All logged by my ears, on my receiver, in real time! DX LISTENING DIGEST)

\*\* ECUADOR. 6050.00, R. HCJB, Quito; 3/12 1058-1135, 44444+, mx f, px A travÈs de la biblia, ID "HCJB", px Camino hacia la Cumbre 2014, news. Muchos 128ÿs PFA (Pedro F. Arrun·tegui, Lima, Dec Chasqui DX, DX LISTENING DIGEST)

B-13 shortwave schedule of HCJB Global Voice:

0830-1100 on 6050 QUI 010 kW / 018 deg to CeAm Kichwa  
 0830-1100 on 6050 QUI 010 kW / 172 deg to SoAm Kichwa  
 1100-1130 on 6050 QUI 010 kW / 018 deg to CeAm Kichwa Sat/Sun  
 1100-1130 on 6050 QUI 010 kW / 172 deg to SoAm Kichwa Sat/Sun  
 1100-1500 on 6050 QUI 010 kW / 018 deg to CeAm Spanish Mon-Fri  
 1100-1500 on 6050 QUI 010 kW / 172 deg to SoAm Spanish Mon-Fri  
 1130-1500 on 6050 QUI 010 kW / 018 deg to CeAm Spanish Sat/Sun  
 1130-1500 on 6050 QUI 010 kW / 172 deg to SoAm Spanish Sat/Sun

1900-2130 on 6050 QUI 010 kW / 018 deg to CeAm Spanish  
 1900-2130 on 6050 QUI 010 kW / 172 deg to SoAm Spanish  
 2130-2200 on 6050 QUI 010 kW / 018 deg to CeAm Chapalaa  
 2130-2200 on 6050 QUI 010 kW / 172 deg to SoAm Chapalaa  
 2200-2330 on 6050 QUI 010 kW / 018 deg to CeAm Spanish  
 2200-2330 on 6050 QUI 010 kW / 172 deg to SoAm Spanish  
 2330-2400 on 6050 QUI 010 kW / 018 deg to CeAm Shuar Mon-Fri  
 2330-2400 on 6050 QUI 010 kW / 172 deg to SoAm Shuar Mon-Fri  
 2330-2400 on 6050 QUI 010 kW / 018 deg to CeAm Spanish Sat/Sun  
 2330-2400 on 6050 QUI 010 kW / 172 deg to SoAm Spanish Sat/Sun  
 0000-0030 on 6050 QUI 010 kW / 018 deg to CeAm Cofan  
 0000-0030 on 6050 QUI 010 kW / 172 deg to SoAm Cofan  
 0030-0100 on 6050 QUI 010 kW / 018 deg to CeAm Kichwa  
 0030-0100 on 6050 QUI 010 kW / 172 deg to SoAm Kichwa  
 0100-0130 on 6050 QUI 010 kW / 018 deg to CeAm Waorani Mon-Fri  
 0100-0130 on 6050 QUI 010 kW / 172 deg to SoAm Waorani Mon-Fri  
 0100-0300 on 6050 QUI 010 kW / 018 deg to CeAm Kichwa Sat/Sun  
 0100-0300 on 6050 QUI 010 kW / 172 deg to SoAm Kichwa Sat/Sun  
 0130-0500 on 6050 QUI 010 kW / 018 deg to CeAm Spanish Mon-Fri  
 0130-0500 on 6050 QUI 010 kW / 172 deg to SoAm Spanish Mon-Fri  
 0300-0500 on 6050 QUI 010 kW / 018 deg to CeAm Spanish Sat/Sun  
 0300-0500 on 6050 QUI 010 kW / 172 deg to SoAm Spanish Sat/Sun  
 (Ivo Ivanov, DX RE MIX NEWS #826 December 16, 2013, via DXLD)

Ivo missed the 15-minute English program on HCJB Quito, really  
 language lessons within the mostly-Spanish blox: in EST from  
<http://spotlightenglish.com/tunein/>

HCJB - The Voice of the Andes - Ecuador

Su,Sa 12:30:00 Shortwave - 6050 kHz

Sa 18:45:00 Shortwave - 6050 kHz

Mo-Fr 22:30:00 Shortwave - 6050 kHz

- See more at:

<http://spotlightenglish.com/tunein/#sthash.X3RqX7Q6.dpuf>

== Tue-Sat 0330, Sat 2345, Sat & Sun 1730 UT --- But it would not hurt  
 to reconfirm it (Glenn Hauser, DX LISTENING DIGEST)

\*\* EGYPT. 9965, Radio Cairo (presumed); 2349, 13-Dec; W in English

(can just tell it's English); to 2351 ME music. SI0=4+22 with strong buzz.

9900, Radio Cairo (presumed); \*2111-2116+, 13-Dec; OC suddenly into chant. 2115 pip brief anmt into more chanting. Uncopiable with buzz.

15345, Radio Cairo (presumed); 1601, 14-Dec; W in English with very muted audio, but not buzzy! (Harold Frodge, M.A.R.E. DXpedition, Brighton MI, Drake R8B + 500' NEish unterminated bev + 85' TTFD, All logged by my ears, on my receiver, in real time! DX LISTENING DIGEST)

\*\* EQUATORIAL GUINEA [and non]. 15190, Dec 12 at 1957, JBA carrier from R. Africa direct, and continuing past 1900 with trace of modulation until WRMI finally cuts on at \*2008:18 with music, making SAH, Day 12 of the RAN/RAN self-collision.

The previous R. Africa frequency from WRMI, 17790 with only fair signal, at 1958 was ending ``TLLB``, meaning Truth, Light & Life Broadcast, from Virginia with an 800 number; 1959 Radio Africa Network ID announces QSY to 15190 at 2000 (not 2008!), and off 17790 by 2000\*.

15190, Dec 13 at 2004, WRMI is already on with preacher from North Carolina on the Radio Africa Network, and still with lite CCI, SAH from the other Radio Africa for the thirteenth day in a row (Glenn Hauser, OK, DX LISTENING DIGEST)

15190, Radio Africa, 0705-0723, 14-12, male, English, religious comments. 14321 (Manuel MÈndez, Lugo, Spain, Logs in Reinante, Sony ICF SW 7600 G, cable antenna, 8 meters, dxldyg via WORLD OF RADIO 1700, DX LISTENING DIGEST)

15190, Dec 14 at 1953, can't detect any signal from R. Africa, Bata, nor after 2000 when R. Africa, Okeechobee is on at 2017 and 2112 chex --- for the first time no self-collision since the latter began December 1.

Have Radio Africa Network finally got their acts apart, or is it just a fluke, propagational or otherwise? Was anyone hearing 15190 Bata earlier on this date? Now at 1953, Botswana on 15580 has a fair signal; and so does 17790, WRMI's previous frequency which is also undermodulated (Glenn Hauser, OK, DX LISTENING DIGEST)

Hi Glenn, On 15190 with Radio Africa via Bata: Dec 12 at 1544 with Christ Gospel Broadcast (P. O. Box 786 Jeffersonville, Indiana 47131); another Thursday with Tony Alamo's program starting at 1559; almost fair. Dec 13 with syndicated Calif. religious program at 1531; weak. Dec 14 at 1544 clearly off the air; no carrier or anything at I time I have recently had no problem hearing them (Ron Howard, San Francisco,

dxldyg via WORLD OF RADIO 1700, DX LISTENING DIGEST)

15190, WRMI, Radio Miami Int'l (presumed); 2038, 14-Dec; Non-B.S. English huxter on sin and the end times. No hint of any other audio under. SIO=4+54+ (Frodge-DXP)

17790, WRMI Radio Miami Int'l (presumed); 1809, 14-Dec; English religious program, "Let the Bible Speak, from the Free Presbyterian Church in Ulster". SIO=4+54+; not // 9955 with B.S., SIO=4+44 with only hint of hiss jammer. Also 1423, 15-Dec with jazzy versions on familiar religious tunes; no BoH break. S15 peaks (Harold Frodge, M.A.R.E. DXpedition, Brighton MI, Drake R8B + 500' NEish unterminated bev + 85' TTFD, All logged by my ears, on my receiver, in real time! DX LISTENING DIGEST)

15190, Dec 15 at 1950 check, no signal from R. Africa direct, a few minutes before WRMI's version starts here. Nor did I hear it Dec 14. Ron Howard, San Francisco, confirms, ``Dec 14 at 1544 clearly off the air; no carrier or anything at I time I have recently had no problem hearing them.`` For self-QRM avoidance, they didn't need to turn Bata off 15190 completely, just after 2000. But they can probably cover all-Africa better from faraway Florida on 17790 at 14-20, 15190 at 20-23 (Glenn Hauser, OK, DX LISTENING DIGEST)

15190.01, R. Africa - Bata. English (American) preaching at 1940 after R. Pilipinas s/off at 1930. Good signal, too! Not strong but with great clarity. ID for R. Africa in the bible program at 1958. THEN: at 2002, WYFR/R. Africa signs on with a strong signal, absolutely no station ID - only a program ID, and straight into English (American) religious programming. Bata can still be heard underneath but pretty much squashed for all intents and purposes. This left me wondering WHY? on Dec 16! (Rob VK3BVW Wagner, NSW, <http://www.medxr.blogspot.com> ARDXC mailing list via DXLD)

15190, R. Africa is back, direct from Bata, despite R. Africa via WRMI. Bata had been missing on Dec 14-15, so we thought they might have finally got their acts apart. Dec 16 at 1950, still no signal on 15190 from either, but at 2139 recheck, the previous mix of two stations with different preachers is back, and making the typical SAH of 200/minute = three and a third Hz apart (Glenn Hauser, OK, WORLD OF RADIO 1700, DX LISTENING DIGEST)

15190, another check on Dec 17, not until 2132 and I am only hearing one station, the Japanese Mississippian preacheress who purports to be a biblical authority. 2225 music. Only very slight fading, seemingly propagational, rather than a regular subaudible heterodyne. If the Bata carrier is on, it's very weak, unmodulated.

15190, Dec 18 at 1958, no signal from R. Africa, Bata; \*2002:35 WRMI cuts on with music, and then 'Apostolic Witness Radio Broadcast' from Memphis; 2027 recheck, still only one signal audible, undermodulated from WRMI, slow fades, but apparently not SAH from a Bata carrier (Glenn Hauser, OK, DX LISTENING DIGEST)

\*\* ERITREA [non]. BELGIUM(non) Upcoming frequency changes of BRB clandestine stations: Radio Assenna Mon/Wed/Fri & Voice of the Forum of Eritreans Tue/Thu/Sat/Sun  
1700-1800 NF 11720 secret / hidden site to EaAf Tigrinya, ex 15245 (Ivo Ivanov, DX RE MIX NEWS #823, December 13, 2013 via DXLD)

Note the unusual double frequency entries at present shown for Radio Inyabutatu and Radio Assenna at  
<http://www.airtime.org/shortwave/schedule.php>

I checked them out tonight shortly before 1800. The results: For Radio Inyabutatu no trace of a signal on 17870 and a trace of a carrier, not necessarily related of course, on 15310. Presumed Radio Assenna was weak on 15245, no result on 11720 where buzz from the neighbour's TV would have obliterated possible weak signals. And no trace of the also listed ESAT on 15370, but who knows to where they hopped tonight.

This really needs monitoring from outside Central Europe (Kai Ludwig, Germany, Dec 14, dxldyg via WORLD OF RADIO 1700, DX LISTENING DIGEST)

\*\* ERITREA [non]. Alyx & Yey, former Broadcast Belgium (BRB) changes: Voice of the Forum of Eritreans only on Dec. 12 2 frequencies in //:  
1700-1800 11720\*ISS 250 kW / 130 deg EaAf Tigrinya//15245 secret site  
\*QRM from China Radio International in Arabic on 11725 via Cerrik, Albania (Ivo Ivanov, DX RE MIX NEWS #825, December 15, 2013, via DXLD)

BELGIUM (non) Confirmed frequency changes of Alyx & Yey clandestine stations: Radio Assenna in Tigrinya from Dec. 16:  
1700-1800 NF 11720 ISS 250 kW / 130 deg EaAf Mon/Wed/Fri, ex 15245  
Jammed by Ethiopia with broadband DRM-like white noise

Voice of the Forum of Eritreans in Tigrinya from Dec. 17:  
1700-1800 NF 11720 ISS 250 kW / 130 deg EaAf Tue/Thu/Sat/Sun, ex 15245  
Jammed by Ethiopia with broadband DRM-like white noise (Ivo Ivanov, DX RE MIX NEWS #828 December 18, 2013 via WORLD OF RADIO 1700, DXLD)

Beware of assenna.com Re: `` ERITREA [non]. 15245, R. Assenna (via Kostinbrod-Sofia) \*1700-1706+ 29 Nov. Opening chat in (presumed) Tigrinya with ID/frequency/website info --- <http://assenna.com> will get you there, nice HOA songs and chat (Dan Sheedy, Swami's Beach, CA G5/PL380/6m X wire, WORLD OF RADIO 1699, DX LISTENING DIGEST)``

Hello - I tried the assenna.com website ... it seemed to attempt to install a "Neutrino" (I think root-kit) virus on Internet Explorer (my antivirus/firewall got it). I greatly enjoy your radio program. All the best, Chris (Christopher D. Watkins, President, Industrial Mindworks, Inc. | Algorithm, Inc., industrialmindworks.com | algorithm.com Dec 14, dxldyg via WORLD OF RADIO 1700, DX LISTENING DIGEST)

\*\* ETHIOPIA. B-13 shortwave schedule of several Ethiopian stations:

0300-0400	5950 GEJ	100 kW	/ non-dir	ETH	Tig/Afa VOTigray Revolution
0300-0400	6030 GEJ	100 kW	/ non-dir	ETH	Oro R. Oromiya
0300-0400	6090 GEJ	100 kW	/ non-dir	ETH	Oro R. Amhara
0300-0400	6110 AAB	100 kW	/ non-dir	ETH	Amh/Oro R. Fana
0300-0400	7210 AAB	100 kW	/ non-dir	ETH	Amh/Oro R. Fana
0300-0400	7237vGEJ	100 kW	/ non-dir	ETH	Amh/Oro/Tig R. Ethiopia
0300-0400	9566vGEJ	100 kW	/ non-dir	ETH	Amh/Oro/Tig R. Ethiopia

0400-0430	5950 GEJ	100 kW	/ non-dir	ETH	Tig/Afa VOTigray Revolution
0400-0430	6030 GEJ	100 kW	/ non-dir	ETH	Oro R. Oromiya
0400-0430	6090 GEJ	100 kW	/ non-dir	ETH	Oro R. Amhara
0400-0430	6110 AAB	100 kW	/ non-dir	ETH	Amh/Oro R. Fana
0400-0430	7210 AAB	100 kW	/ non-dir	ETH	Amh/Oro R. Fana
0400-0430	7237vGEJ	100 kW	/ non-dir	ETH	Tig VOPeace and Democracy
0400-0430	9566vGEJ	100 kW	/ non-dir	ETH	Tig VOPeace and Democracy

0430-0600	5950 GEJ	100 kW	/ non-dir	ETH	Tig/Afa VOTigray Revolution
0430-0600	6030 GEJ	100 kW	/ non-dir	ETH	Oro R. Oromiya
0430-0600	6090 GEJ	100 kW	/ non-dir	ETH	Oro R. Amhara
0430-0600	6110 AAB	100 kW	/ non-dir	ETH	Amh/Oro R. Fana
0430-0600	7210 AAB	100 kW	/ non-dir	ETH	Amh/Oro R. Fana
0430-0600	7237vGEJ	100 kW	/ non-dir	ETH	Amh/Oro/Tig R. Ethiopia
0430-0600	9566vGEJ	100 kW	/ non-dir	ETH	Amh/Oro/Tig R. Ethiopia

0600-0900	5950 GEJ	100 kW	/ non-dir	ETH	Tig/Afa VOTigray Revolution
0600-0900	6030 GEJ	100 kW	/ non-dir	ETH	Oro R. Oromiya
0600-0900	6090 GEJ	100 kW	/ non-dir	ETH	Oro R. Amhara
0600-0900	6110 AAB	100 kW	/ non-dir	ETH	Amh/Oro R. Fana
0600-0900	7210 AAB	100 kW	/ non-dir	ETH	Amh/Oro R. Fana
0600-0900	7237vGEJ	100 kW	/ non-dir	ETH	Amh/Oro/Tig R. Ethiopia
0600-0900	9566vGEJ	100 kW	/ non-dir	ETH	Amh/Oro/Tig R. Ethiopia

1200-1500	7237vGEJ	100 kW	/ non-dir	ETH	Som/Afa/Ara R. Ethiopia
1200-1500	9566vGEJ	100 kW	/ non-dir	ETH	Som/Afa/Ara R. Ethiopia

1500-1600	5950 GEJ	100 kW	/ non-dir	ETH	Tig/Afa VOTigray Revolution
1500-1600	6030 GEJ	100 kW	/ non-dir	ETH	Oro R. Oromiya
1500-1600	6090 GEJ	100 kW	/ non-dir	ETH	Oro R. Amhara
1500-1600	6110 AAB	100 kW	/ non-dir	ETH	Amh/Oro R. Fana

1500-1600	7210 AAB	100 kW	/ non-dir	ETH	Amh/Oro R. Fana
1500-1600	7237vGEJ	100 kW	/ non-dir	ETH	Ara/Tig/Afa VODem.Alliance
1500-1600	9566vGEJ	100 kW	/ non-dir	ETH	Ara/Tig/Afa VODem.Alliance
1600-1700	5950 GEJ	100 kW	/ non-dir	ETH	Tig/Afa VOTigray Revolution
1600-1700	6030 GEJ	100 kW	/ non-dir	ETH	Oro R. Oromiya
1600-1700	6090 GEJ	100 kW	/ non-dir	ETH	Oro R. Amhara
1600-1700	6110 AAB	100 kW	/ non-dir	ETH	Amh/Oro R. Fana
1600-1700	7210 AAB	100 kW	/ non-dir	ETH	Amh/Oro R. Fana
1600-1700	7237vGEJ	100 kW	/ non-dir	ETH	English R. Ethiopia
1600-1700	9566vGEJ	100 kW	/ non-dir	ETH	English R. Ethiopia
1700-1800	5950 GEJ	100 kW	/ non-dir	ETH	Tig/Afa VOTigray Revolution
1700-1800	6030 GEJ	100 kW	/ non-dir	ETH	Oro R. Oromiya
1700-1800	6090 GEJ	100 kW	/ non-dir	ETH	Oro R. Amhara
1700-1800	6110 AAB	100 kW	/ non-dir	ETH	Amh/Oro R. Fana
1700-1800	7210 AAB	100 kW	/ non-dir	ETH	Amh/Oro R. Fana
1700-1800	7237vGEJ	100 kW	/ non-dir	ETH	French R. Ethiopia
1700-1800	9566vGEJ	100 kW	/ non-dir	ETH	French R. Ethiopia
1800-1830	5950 GEJ	100 kW	/ non-dir	ETH	Tig/Afa VOTigray Revolution
1800-1830	6030 GEJ	100 kW	/ non-dir	ETH	Oro R. Oromiya
1800-1830	6090 GEJ	100 kW	/ non-dir	ETH	Oro R. Amhara
1800-1830	6110 AAB	100 kW	/ non-dir	ETH	Amh/Oro R. Fana
1800-1830	7210 AAB	100 kW	/ non-dir	ETH	Amh/Oro R. Fana
1800-1830	7237vGEJ	100 kW	/ non-dir	ETH	Tig VOPeace and Democracy
1800-1830	9566vGEJ	100 kW	/ non-dir	ETH	Tig VOPeace and Democracy
1830-1900	6090 GEJ	100 kW	/ non-dir	ETH	Oro R. Amhara
1830-1900	5950 GEJ	100 kW	/ non-dir	ETH	Tig/Afa VOTigray Revolution
1830-1900	6030 GEJ	100 kW	/ non-dir	ETH	Oro R. Oromiya
1830-1900	6110 AAB	100 kW	/ non-dir	ETH	Amh/Oro R. Fana
1830-1900	7210 AAB	100 kW	/ non-dir	ETH	Amh/Oro R. Fana
1830-1900	7237vGEJ	100 kW	/ non-dir	ETH	Amh/Oro/Tig R. Ethiopia
1830-1900	9566vGEJ	100 kW	/ non-dir	ETH	Amh/Oro/Tig R. Ethiopia
1900-2000	5950 GEJ	100 kW	/ non-dir	ETH	Tig/Afa VOTigray Revolution
1900-2000	6030 GEJ	100 kW	/ non-dir	ETH	Oro R. Oromiya
1900-2000	6110 AAB	100 kW	/ non-dir	ETH	Amh/Oro R. Fana
1900-2000	7210 AAB	100 kW	/ non-dir	ETH	Amh/Oro R. Fana
1900-2000	7237vGEJ	100 kW	/ non-dir	ETH	Amh/Oro/Tig R. Ethiopia
1900-2000	9566vGEJ	100 kW	/ non-dir	ETH	Amh/Oro/Tig R. Ethiopia
2000-2100	6110 AAB	100 kW	/ non-dir	ETH	Amh/Oro R. Fana
2000-2100	7210 AAB	100 kW	/ non-dir	ETH	Amh/Oro R. Fana
2000-2100	7237vGEJ	100 kW	/ non-dir	ETH	Amh/Oro/Tig R. Ethiopia
2000-2100	9566vGEJ	100 kW	/ non-dir	ETH	Amh/Oro/Tig R. Ethiopia

Afa=Afar; Amh=Amharic; Ara=Arabic; Oro=Oromo; Som=Somali; Tig=Tigrinya



(Ivo Ivanov, DX RE MIX NEWS #823, December 13, 2013 via DXLD)

\*\* ETHIOPIA [non]. BELGIUM(non) Upcoming frequency changes of BRB clandestine stations: Oromo Voice, new transmission 1600-1630 on 17850 secret / hidden site to EaAf Oromo Mon/Wed/Sat I tried on Sat/Mon/Wed, Dec.7/9/11, but still no broadcasts (Ivo Ivanov, DX RE MIX NEWS #823, December 13, 2013 via WORLD OF RADIO 1700, DXLD)

\*\* ETHIOPIA [non]. 15365, CLANDESTINE. ESAT Radio ñ Kostinbrod [BULGARIA] (presumed), 1713-1738 Dec 10, long talk by a man announcer in listed Amharic language with remote reports from different men. Horn of Africa vocals at 1732. Poor with very deep fades to almost non-existent at time (Richard A. DiAngelo, Wyomissing, PA 19610 U.S.A, Dec 17, Ten-Tec RX-340, Drake R-8B, Eton E1, Eton E5, Alpha Delta DX Sloper, RF Systems Mini-Windom, Datong FL3, JPS ANC-4, via Craig Seager, ARDXC via DXLD)

\*\* ETHIOPIA [non]. 17630, CLANDESTINE, Radio Xoriyo ñ Issoudun [FRANCE], 1619-1630\* Dec 10, man announcer with talk in Somalia language with Horn of Africa instrumental music prior to brief talk and HoA male vocals. 1629 apparently ID and closedown announcements with music continuing until the transmission carrier was terminated. Poor but improving to fair by closedown (Richard A. DiAngelo, Wyomissing, PA 19610 U.S.A, Dec 17, Ten-Tec RX-340, Drake R-8B, Eton E1, Eton E5, Alpha Delta DX Sloper, RF Systems Mini-Windom, Datong FL3, JPS ANC-4, via Craig Seager, ARDXC via DXLD)

\*\* ETHIOPIA [non]. Alyx & Yey, former Broadcast Belgium (BRB) changes: Oromo Voice at new time and frequency, according to Aoki list. I'll check tomorrow.  
1500-1530 on 15515 ISS 250 kW / 130 deg to EaAf Oromo Mon/Wed/Sat  
1600-1630 on 17850 ISS 250 kW / 130 deg to EaAf Oromo Mon/Wed/Sat  
cancelled (Ivo Ivanov, DX RE MIX NEWS #825, December 15, 2013, via WORLD OF RADIO 1700, DXLD)

\*\* EUROPE. Last night heard a mixed Italian/Argentine tango music pirate on 6240.440 kHz in deep European night at 0112 UT, some Tango mx of the 30ties from last century. 73 wb df5sx (Wolfgang B.schel, Dec 15, HCDX via DXLD)

\*\* FINLAND. 25000, Time Signal Stations Mikes, 1145-1156, 14-12, time signals, pulse with each second. 14321 (Manuel M endez, Lugo, Spain, Logs in Reinante, Sony ICF SW 7600 G, cable antenna, 8 meters, dxldyg via DX LISTENING DIGEST)

\*\* FRANCE. Unscheduled broadcast of Radio France Internationale Dec. 18: 1345-1410 9790 ISS 500 kW / ??? deg to ??? French very strong in

Sofia (Ivo Ivanov, DX RE MIX NEWS #828 December 18, 2013 via DXLD)

\*\* GERMANY. Oggetto: Tests am Sonntag, 15.12. mit neuem Reservesender / testing on Sunday, Dec. 15th with new stand-by transmitter

During the last weeks we have been busy with working on our new stand-by transmitter. When we were ON AIR, then only with the driver and around 60 watts. Last night we succeeded in testing the transmitter, its cooling and output filter without modulation and with a 1000 Hz tone. So today we are able to run some tests carrying program using different power levels;\* your reception reports would be very helpful!

\*We can't give an exact\*\*schedule, and surely we will have some breaks for measurement and adjusting. So just tune in to 6070 kHz; if you hear religious music, you are on 6075 :-). For last minute news please look at AKTUELL on our homepage: <http://www.channel292.de>

\*Nederlands:\* :-[ (via Roberto Rizzardi, Dec 15, playdx yg via DXLD)

\*\* GERMANY. 6045, European Music Radio, Nauen, 0905-0920, 15-12, English, comments, identification "European Music Radio", pop music. // with 9480 kHz. 34433 (MÈndez)

7265, European Music Radio, Gohren, 0805-0820, 15-12, pop music, male, identification: "European Music Radio, EMR", comments, English. 34433-

9480, European Music Radio, Gohren, \*0900-0915, 15-12, male, identification; "This is European Music Radio", pop music and comments, English. 24322 (MÈndez)

9480, Radio Geronimo, Gohren, \*1000-1010, 15-12, male, English: "Short Wave listeners, this is Radio Geronimo Short Wave... P. O. Box... Germany, P. O. Box.. Holland", pop music, "Free Radio". 24322. (Manuel MÈndez, Lugo, Spain, Logs in Reinante, Sony ICF SW 7600 G, cable antenna, 8 meters, dxldyg via DX LISTENING DIGEST)

EMR & Geronimo Schedule for 15th December 2013

EMR 0800 to 0900 UT Goehren / 7265 Stewart Ross

EMR 0900 to 1000 UT Goehren / 9480 Tom & Mike Taylor

EMR 0900 to 1000 UT Nauen / 6045 Tom & Mike Taylor

Please send all E.M.R. reports to: [studio@emr.org.uk](mailto:studio@emr.org.uk) Thank you!

EMR Internet repeats on Sunday and Monday: Programme repeats are at the following times: 0800, 1300, 1700, 2000 UT. Please visit <http://www.emr.org.uk> and click on the iEMR internet radio button which you will find throughout the website (see the menu on the left).

Radio Geronimo Relay: RG 1000 to 1200 UT Gohren / 9480 KHz

Please send all reports to: [geronimoshortwave@hotmail.com](mailto:geronimoshortwave@hotmail.com) Thank you!

Good Listening! 73s (Tom Taylor, Dec 14, DX LISTENING DIGEST)

\*\* GERMANY. Winter B13 of 3985/3995/6005/6070/6190/7265/7310/7365/9480

0000-2400 on 3985 KLL 001 kW / non-dir to CeEu as follows:

0000-0530 Daily Radio 700 German  
0530-0545 Mon-Sat Missionswerk Freundesdienst German  
0530-0545 Sunday Radio 700 German  
0545-0630 Daily Radio 700 German  
0630-0645 Mon-Sat Radio 700 German  
0630-0645 Sunday Missionswerk Freundesdienst German  
0645-1000 Daily Radio 700 German  
1000-1100 Daily Radio 700 German  
1100-1115 Daily Missionswerk Freundesdienst German  
1115-1745 Daily Radio 700 German  
1745-1800 Mon-Sat Missionswerk Freundesdienst German  
1745-1800 Sunday Radio 700 German  
1800-1930 Daily Radio 700 German  
1930-2000 Daily Radio Slovakia International German  
2000-2030 Daily Radio Prague German  
2030-2100 Daily Polish Radio Warsaw German  
2100-2200 Daily Radio Ukraine International German  
2200-2400 Daily Radio 700 German

0000-2400 on 3995 WNM 1.5 kW / non-dir to CeEu as follows:

0000-0400 Daily HCJB International, including English  
0400-0430 Daily HCJB Russian  
0430-0600 Daily HCJB German  
0600-0630 Daily Missionswerk Werner Heukelbach  
0630-0900 Daily HCJB German  
0900-1000 Daily Ichtys Radio German  
1000-1630 Daily HCJB German  
1630-1700 Daily Missionswerk Werner Heukelbach  
1700-2230 Daily HCJB German  
2230-2330 Daily Ichtys Radio German  
2330-2400 Daily HCJB International, including English

0700-1800 on 6005 KLL 100 kW / non-dir to CeEu as follows:

0700-0900 Daily Radio Belarus German  
0900-1100 Daily Radio 700 German, except:  
0900-1000 2nd Sun Atlantic 2000 International French  
1000-1100 3rd Sun Radio Joystik German  
1000-1100 4th Sun Radio Gloria International German  
1100-1115 Daily Missionswerk Freundesdienst German  
1115-1745 Daily Radio 700 German  
1745-1800 Mon-Sat Missionswerk Freundesdienst German  
1745-1800 Sunday Radio 700 German

0000-2400 6070 ROB 2.5 kW / non-dir to CeEu German Radio Channel 292:

Relay Radio Nordsee International, Radio Caroline, Radio Atlantis, etc  
0800-1400 Dec.29 Free Radio Service Holland Dutch/German/English

0900-1200 6190 GOH 001 kW / 230 deg to CeEu USB+carrier as follows:  
0900-1200 Sat/Wed Hamburger Lokalradio German

0800-1200 6190 GOH 001 kW / 230 deg to CeEu USB+carrier as follows:  
0800-0900 2nd Sun European Music Radio English  
0900-1000 2nd Sun MV Baltic Radio English/German  
1100-1300 2nd Sun Radio Gloria International English/German  
0900-1000 3rd Sun European Music Radio English  
1100-1200 3rd Sun MV Baltic Radio English/German

0600-0900 7265 GOH 001 kW / 230 deg to CeEu USB+carrier as follows:  
0600-0730 Sat/Wed Hamburger Lokalradio German  
0730-0800 Sat/Wed GH's World of Radio English [not Dec 25, Jan 1]  
0800-0900 Sat/Wed Hamburger Lokalradio German  
[Dec 25 & Jan 1 specials entirely in German --- gh]

1200-1600 7265 GOH 001 kW / 230 deg to CeEu USB+carrier as follows:  
1200-1530 Sat/Wed Hamburger Lokalradio German, except  
1200-1300 Sat/Wed Swedish DX Federation Swedish on January 11/15, 2014  
1300-1400 4th Sat Radio City English  
1530-1600 Sat/Wed GH's World of Radio English [not Dec 25, Jan 1]  
[Dec 25 & Jan 1 specials entirely in German --- gh]

0600-1400 7265 GOH 001 kW / 230 deg to CeEu USB+carrier as follows:  
0900-1000 1st Sun MV Baltic Radio English/German  
1200-1400 1st Sun Radio Gloria International English/German  
0800-0900 3rd Sun European Music Radio English  
0600-0800 4th Sun Radio Gloria International English/German  
1200-1400 4th Sun Radio Gloria International English/German

0700-1300 7310 KLL 001 kW / non-dir to CeEu as follows:  
0700-1100 Daily Radio 700 German, except  
0900-1000 2nd Sun Atlantic 2000 International French  
1000-1200 2nd Sun Free Radio Service Holland Dutch/German/English  
1000-1100 3rd Sun Radio Gloria International German  
1100-1115 Daily Missionswerk Freundesdienst German  
1115-1300 Daily Radio 700 German

0000-2400 7365 WNM 0.1 kW / 145 deg to SEEu as follows:  
0000-0400 Daily HCJB International, including English  
0400-0430 Daily HCJB Russian  
0430-0600 Daily HCJB German  
0600-0630 Daily Missionswerk Werner Heukelbach  
0630-0900 Daily HCJB German  
0900-1000 Daily Ichtys Radio German

1000-1630 Daily HCJB German  
1630-1700 Daily Missionswerk Werner Heukelbach  
1700-2230 Daily HCJB German  
2230-2330 Daily Ichtys Radio German  
2330-2400 Daily HCJB International, including English

0800-1200 9480 GOH 001 kW / 230 deg to CeEu USB+carrier as follows:

1000-1100 1st Sun MV Baltic Radio English/German  
1000-1100 2nd Sun Atlantic 2000 International French  
0900-1000 3rd Sun European Music Radio English  
1000-1200 3rd Sun Radio Geronimo English  
0800-1000 4th Sun Radio Gloria International English/German  
(Ivo Ivanov, DX RE MIX NEWS #828 December 18, 2013 via DXLD)

\*\* GERMANY. Today at 0748, I found a German sounding station on 7310 with a program of ompah ompah German songs and talks by OM in German. Does any one know who can be?

<http://www.ipernity.com/doc/zliangas/28907149>

(Zacharias Liangas, Thessaloniki, Greece, DX LISTENING DIGEST)

Kall, 7310 0400-1600 18,19,27,28,29,37N KLL 20kW non-dir antenna# ITU 925, daily DEU D RSH FNA. Kall site, next to not so far Luxembourg border (Wolfgang B,schel, ibid.)

\*\* GERMANY [and non]. DRM:

15896, biteXpress, Germany, 13/12 0902 UT, SNR 3dB only! Good to decode but not strong enough to pull audio. 1 kW. Long path  
15585, REE Noblejas, Spain, 14/12 0940 UT, SNR 20.1 Db, excellent copy, no drop-outs. Long path. 73, (Nick VK2DX [Sydney] Hacko, NSW, dxldyg via DX LISTENING DIGEST)

\*\* GERMANY [non]. Deutsche Welle changes from January 1, 2014:

1300-1400 NF 17860 KIG 250 kW / 295 deg WeAf Hausa, ex 12070  
1330-1400 NF 15700 KIG 250 kW / 030 deg WeAs Dari, ex 9440 ERV  
1400-1430 NF 15700 KIG 250 kW / 030 deg WeAs Pashto, ex 9440 ERV  
1430-1500 NF 15700 KIG 250 kW / 030 deg SoAs Urdu, ex 15275 KIG  
1430-1500 on 9440 ERV 300 kW / 100 deg SoAs Urdu, will be cancelled  
1930-2000 on 11800 KIG 250 kW / non-dir CeAf English, will cancelled  
1930-2000 NF 11800 KIG 250 kW / non-dir CeAf Portuguese, ex 7305 KIG  
(Ivo Ivanov, DX RE MIX NEWS #826 December 16, 2013, via DXLD)

\*\* GERMANY [and non]. NDR Christmas Eve transmitter sites --- Someone posted the transmitter details for the 24 Dec only NDR shortwave transmission at

<http://radioforum.foreign.mysnip.de/read.php?8773,1087715,1193071#msg-1193071>

As it was to be expected: Nauen, Issoudun and Moosbrunn. In particular two of the four ALLISS units at Nauen, with the Telefunken

transmitters run at 25% power, two of the many at this time idle ALLISS units at Issoudun, with the Thomson transmitters run at half power (they can't go below 250 kW), and one of the 100 kW transmitters at Moosbrunn with the fixed bidirectional curtain.

1900-2100 6125 Nauen (125 kW, 250 )  
1900-2100 9460 Nauen (125 kW, 130 )  
1900-2100 9885 Moosbrunn (100 kW, 115 )  
1900-2100 11955 Issoudun (250 kW, 195 )  
1900-2300 9925 Issoudun (250 kW, 156 )  
2100-2300 6040 Nauen (125 kW, 250 )  
2100-2300 9435 Issoudun (250 kW, 195 )  
2100-2300 9625 Moosbrunn (100 kW, 115 )  
2100-2300 9880 Nauen (125 kW, 130 ) (Kai Ludwig, Germany, Dec 12,  
dxldyg via WORLD OF RADIO 1700, DX LISTENING DIGEST)

\*\* GERMANY [and non] Media Broadcast changes:

Special broadcasts of NDR on Christmas Eve on December 24:

1900-2100 on 6125 NAU 125 kW / 250 deg to North Atlantic  
1900-2100 on 9460 NAU 125 kW / 130 deg to Indian Ocean West  
1900-2100 on 9885 MOS 100 kW / 115 deg to Indian Ocean East  
1900-2100 on 9925 ISS 250 kW / 156 deg to Indian Ocean/SoAf  
1900-2100 on 11955 ISS 250 kW / 195 deg to South Atlantic  
2100-2300 on 6040 NAU 125 kW / 250 deg to North Atlantic  
2100-2300 on 9435 ISS 250 kW / 195 deg to South Atlantic  
2100-2300 on 9625 NAU 125 kW / 130 deg to Indian Ocean West  
2100-2300 on 9880 MOS 100 kW / 115 deg to Indian Ocean East  
2100-2300 on 9925 ISS 250 kW / 156 deg to Indian Ocean/SoAf  
(Ivo Ivanov, DX RE MIX NEWS #828 December 18, 2013 via DXLD)

\*\* GERMANY [and non]. New updated official Media Broadcast B-13 schedule

[http://www.media-broadcast.com/fileadmin/user\\_upload/Downloads/B13\\_operational\\_161213\\_MBR.pdf](http://www.media-broadcast.com/fileadmin/user_upload/Downloads/B13_operational_161213_MBR.pdf)

(Akbar Indra Gunawan, Dec 18, Hard-Core-DX mailing list via DXLD)

\*\* GOA. UNID on 11744 (and today on 9814) is All India Radio

INDIA All India Radio on very odd frequencies:

1115-1215 9814 PAN 250 kW / 120 deg to SoAs Tamil, instead of 9810  
1215-1245 9814 PAN 250 kW / 120 deg to SoAs Telugu, instead of 9810  
1315-1415 11744 PAN 250 kW / 300 deg to WeAs Dari, instead of 11740\*  
1415-1530 11744 PAN 250 kW / 300 deg to WeAs Pashto, instead of 11740\*  
\*scheduled 11670 -- 73! (Ivo Ivanov, QTH: Sofia, Bulgaria, Dec 13,  
dxldyg via WORLD OF RADIO 1700, DX LISTENING DIGEST)

Alokesh, I measured exact 11743.968 kHz this afternoon.

INDIA 11743.968 These Goa Panaji txs (I guess older Swiss BBC ones ? - <http://www.swcountry.be/ind.html>

2 x 250 kW, BBC SK53C3-2P type of 1992)

were also mostly unstable on odd frequencies in past years.

Noted AIR TX signing OFF at 15.30:20 UT Dec 13. At 1520 UT Dec 13 noted S=9+35dB proper signal here in southern Germany.

btw. Aoki Nagoya list is WRONG ? Shows 500 kW of power, but I've my d^ubts; there is no combine two TXs via antenna matrix at Panaji so far? I guess 500 kW data entry left over from an earlier Bangalore beast entry. 73 wb df5sx (Wolfgang B\_schel, dxldyg via DX LLISTENING DIGEST)

Hi Wolfy, Agreed! 500 kW must be an older entry at Aoki. Heard Dec 13 on 11743.97 with ID in English at 1530\* ("Good Evening. This is All India Radio ..."); QRM from whistling sound/jamming? Poor, but certain ID, per attached audio [7 seconds to the dxldyg]. Thanks to Ralph Perry for the alert yesterday (Ron Howard, San Francisco, ibid.)

Yes, precise on 7253.979 kHz at 1655 UT, but CRI English-Chinese lesson 7255 kHz is on top signal here in Germany.

also Goa Panaji 2045 UT 11740

2300-0345 11740

0400-0600 15210 kHz. 73 wb (B\_schel, ibid.)

INDIA re defunct tx at Goa Panaji. AIR Goa now from 2045 UT onwards - but also odd minus 21 Hertz on 11739.979 kHz.

i.e. compared to 7253v, when 7253.979 kHz this afternoon, so the AIR engineer aligned NOW, switched DOWN +4000 Hertz. wb (B\_schel, 2213 UT Dec 13, dxldyg via DX LISTENING DIGEST)

11739.966, AIR Dari service to AFG & IRN border region started very late at 1322 UT Dec 14, and at this moment I could easily note the "wobbling whistle signal from defunct 250 kW unit at Goa Panaji".

The engineer aligned the Goa TX yesterday night  
"MINUS 4000 Hertz" {so left 11743.968 today)

So the exact frequency measurement shows today UT afternoon on 11739.966 kHz, signal strength was of AHEAD AIR signal about S=9+20dB here in Germany. CNR2 program on even 11740 kHz is underneath.

Listen to the WHISTLE WOBBLER on attached record. vy73 wolffy df5sx (B\_schel, WORLD OF RADIO 1700, ibid.)

All India Radio on Dec.14

1315-1415 11740 PAN 250 kW / 300 deg WeAs Dari, ex 11744 on Dec.12/13  
1415-1530 11740 PAN 250 kW / 300 deg WeAs Pashto, ex 11744 Dec 12/13  
but now  
1615-1730 7254 PAN 250 kW / 300 deg WeAs Hindi, instead of 7250 and  
later  
1730-1830 7254 PAN 250 kW / 300 deg WeAs Malayalam, instead of 7250  
-- 73! (Ivo Ivanov, QTH: Sofia, Bulgaria, WORLD OF RADIO 1700, DX  
LISTENING DIGEST)

Re defunct [defective?] Goa Panaji txers - or lets say incompetent  
engineers there. In February 2010 I sent a complaint to

Reception Reports may be sent to  
Mr.V.N.Page, Station Engineer, AIR Panaji at the email id  
<panaji.spt @ air.org.in>

Comment in my archive  
AIR Panaji (250 kW) Both the 250 kW SW transmitters of AIR Panaji  
carrying External Services were not heard for some months but one  
transmitter is noted back on the air with the following schedule now.  
(wb, March 2010)

Latest info received shows that the frequencies listed as Panaji above  
viz 9810 & 15185 kHz are actually from Delhi. Any inconvenience caused  
is regretted. (June 2010)

March 2011:  
All India Radio - Panaji (Goa) <www.airpanaji.gov.in>  
- - -

Yes, at 1713 UT Dec 14 on 7250 kHz nominal - plus 3981 Hertz, meaning  
7253.981 kHz exact measure, S=9+25dB signal in Germany, but the  
adjacent China station on 7255 exact is even stronger a little bit,  
compared to yesterday Dec 13. 73 wb (Wolfgang B,schel, DX LISTENING  
DIGEST)

\*\* GREECE. 11645 12/Dez 0625, ERT3 in Greek. Greek pop music. At 0630  
OM talk. No signal on 7475, 9420, 15630. Weak signal.

[and non] 11905, 12/Dez 0649 CHINA, CNR 6 in Hakka (listed). OM talk,  
at 0650 Chinese pop music. 25432. In SDR Twente on 11905 a totally  
distorted signal. Seems to be the ERT3(?), but or is another  
transmission or is lagged compared to 11645. At 0700 time signal type  
Big Ben and YL talk. Returning at 0700 to 11645, no signal of ERT3. At  
0702 no distorted signal on 11905, now CNR6 with very weak signal  
(Jorge Freitas, Feira de Santana, Bahia, 12 14YS 38 58YW - Brasil,  
dxldyg via DX LISTENING DIGEST)



\*\* GREECE. Winter B-13 schedule of ERT. All frequencies are not registered in B13 HFCC database. Some days the station used 1 or 2 frequencies or no broadcast on the air. Often the technicians don't make frequency changes, e.g. 0600-0700 7475 Dec. 11, 7450 Dec. 12 // 11645 and no signal 9420

1300-1700 9420 AVL 170 kW / 323 deg WeEu Greek, not active in B-13  
 1300-1700 9935 AVL 100 kW / 285 deg WeEu Greek, not active in B-13  
 1300-1700 15630 AVL 100 kW / 105 deg SoAs Greek, not active in B-13

1700-1900 7450 AVL 100 kW / 323 deg WeEu Greek, not active in B-13  
 1700-1900 9420 AVL 170 kW / 323 deg WeEu Greek, not active in B-13  
 1700-1900 15630 AVL 100 kW / 105 deg SoAs Greek, not active in B-13

1900-2300 7450 AVL 100 kW / 323 deg WeEu Greek  
 1900-2300 9420 AVL 170 kW / 323 deg WeEu Greek  
 1900-2300 15650 AVL 100 kW / 260 deg CeEu Greek

2300-0300 7475 AVL 100 kW / 285 deg NoAm Greek  
 2300-0300 9420 AVL 170 kW / 323 deg NoAm Greek  
 2300-0300 15650 AVL 100 kW / 226 deg SoAm Greek

0300-0600 7475 AVL 100 kW / 285 deg NoAm Greek  
 0300-0600 9420 AVL 170 kW / 323 deg NoAm Greek  
 0300-0600 11645 AVL 100 kW / 285 deg WeEu Greek

0600-0700 7475 AVL 100 kW / 182 deg NoAf Greek  
 0600-0700 9420 AVL 170 kW / 323 deg WeEu Greek  
 0600-0700 11645 AVL 100 kW / 285 deg WeEu Greek

0700-0900 7475 AVL 100 kW / 182 deg NoAf Greek, irregular air  
 0700-0900 9420 AVL 170 kW / 323 deg WeEu Greek, irregular air  
 0700-0900 11645 AVL 100 kW / 285 deg WeEu Greek, irregular air

0900-1300 7475 AVL 100 kW / 182 deg NoAf Greek Sat/Sun, irregular  
 0900-1300 9420 AVL 170 kW / 323 deg WeEu Greek Sat/Sun, irregular  
 0900-1300 11645 AVL 100 kW / 285 deg WeEu Greek Sat/Sun, irregular  
 (Ivo Ivanov, DX RE MIX NEWS #823, December 13, 2013 via DXLD)

7475, Dec 13 at 0641, presumed Thessaloniki with undermodulated Greek music, instead of 7450 this time. Still nothing audible on 9420 or higher frequencies in daytime (Glenn Hauser, OK, DX LISTENING DIGEST)

This is my reception report for Friday and Saturday, December 14, 2013

FRIDAY 12/13					SATURDAY 12/14										
1900	2000	2100	2200	2300	0000	0100	0200		kHz	Az.	kW	Stn	ER++		
000000	000000	15431	15431	15431	XXXXXX	XXXXXX	XXXXXX		7450	323	100	AVL1	T3		
000000	000000	15431	15431	15431	XXXXXX	XXXXXX	XXXXXX		15630	285	100	AVL2	T5		

00000 00000 00000 00000 00000|00000 00000 00000 9420 323 170 AVL3 A5  
 XXXXX XXXXX XXXXX XXXXX 00000|15431 15431 15431 15650 226 100 AVL1 A5  
 XXXXX XXXXX XXXXX XXXXX 00000|15431 15431 45444 7475 285 100 AVL2 A5  
 (John Babbis, MD, DX LISTENING DIGEST)

7475 is the frequency of choice tonight, Dec 14 at 0343 with  
 undermodulated Greek music on S9+18 carrier (Glenn Hauser, OK, DX  
 LISTENING DIGEST)

15630, V of Greece, 14/12 1347, In Greek, pop music loud S9+15 db QSB,  
 73 (Nick VK2DX [Sydney] Hacko, NSW, dxldyg via DX LISTENING DIGEST)

15630, Dec 14 at 1428, music and talk, presumed Greek on poor signal,  
 and also at 1737. What's left of V. of Greece is seldom heard on 15  
 MHz any more, but surely can't be OMAN, the source of numerous wooden  
 registrations, while Avlis is totally missing from HFCC. Fortunately,  
 WEWN 15610 is not strong enough at the moment to audiblize its second-  
 order spur on 15628.

7475, Dec 15 at 0204, undermodulated Greek again. Tsk,  
 ``undermodulated`` is such a long word and we have to write it so  
 often about so many stations. Should I declare an abbr., like UM?  
 (Glenn Hauser, OK, DX LISTENING DIGEST)

Glenn: good idea, but that would suggest OM for "over-modulated"  
 which effect perhaps happens less frequently but still often enough  
 for the abbreviation be used. But OM -- sadly -- has that other  
 meaning (OM / YL) so there'd be cross-over. Then again, maybe that  
 would drive the OM / YL abbreviations out of existence! :) (Philip  
 Hiscock, Canada, DX LISTENING DIGEST)

#### ELLINIKI RADIOPHONIA

This is my reception report for Sunday and Monday, December 16, 2013

SUNDAY 12/15					MONDAY 12/16									
1900	2000	2100	2200	2300	0000	0100	0200	kHz	Az.	kW	Stn	ER++		
00000	00000	15241	15241	XXXXX	XXXXX	XXXXX	XXXXX	7450	323	100	AVL1	T3		
00000	00000	15241	15241	XXXXX	XXXXX	XXXXX	XXXXX	15630	285	100	AVL2	T5		
00000	00000	00000	00000	00000	00000	00000	00000	9420	323	170	AVL3	A5		
XXXXX	XXXXX	XXXXX	XXXXX	15241	15241	15241	15241	15650	226	100	AVL1	A5		
XXXXX	XXXXX	XXXXX	XXXXX	55434	55434	55444	55444	7475	285	100	AVL2	A5		
MONDAY 12/16					TUESDAY 12/17									
1900	2000	2100	2200	2300	0000	0100	0200	kHz	Az.	kW	Stn	ER++		
00000	00000	25242	25242	15241	XXXXX	XXXXX	XXXXX	7450	323	100	AVL1	T3		
00000	00000	15241	25242	15241	XXXXX	XXXXX	XXXXX	15630	285	100	AVL2	T5		
00000	00000	00000	00000	00000	00000	00000	00000	9420	323	170	AVL3	A5		
XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	15241	15241	15241	15650	226	100	AVL1	A5		
XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	45444	45444	35333	7475	285	100	AVL2	A5		

(John Babbis, MD, DX LISTENING DIGEST)

[and non]. 7475, Dec 17 at 0107 is tonight's frequency from what's left of Ellenike Radiophonia, presumably carrying Thessaloniki programming, as usual undermodulated, rock music, but fair signal strength. Nothing on 9420 except CRI EAST TURKISTAN (Glenn Hauser, OK, DX LISTENING DIGEST)

This is my reception report for Tuesday & Wednesday, December 18, 2013

TUESDAY 12/107				WEDNESDAY 12/18								
1900	2000	2100	2200	2300	0000	0100	0200	kHz	Az.	kW	Stn	ER++
00000	00000	25242	15241	00000	35333	25332	45344	7450	323	100	AVL1	T3
00000	00000	00000	15241	00000	00000	00000	00000	15630	285	100	AVL2	T5
00000	00000	00000	00000	00000	55455	45344	55555	9420	323	170	AVL3	A5
XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	15650	226	100	AVL1	A5
XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	7475	285	100	AVL2	A5

(John Babbis, MD, DX LISTENING DIGEST)

Two different broadcasts from Greece on Wednesday, Dec. 18:

0600-0630 on 7450 AVL 100 kW / 182 deg to NoAf Greek ERT-3, not 7475  
0600-0630 on 9420 AVL 170 kW / 323 deg to WeEu Greek, not // on 7450  
0600-0630 on 11645 AVL 100 kW / 285 deg to WeEu Greek, not on the air  
(Ivo Ivanov, DX RE MIX NEWS #828 December 18, 2013 via DXLD)

\*\* GUATEMALA. 4055, Radio Verdad, Chiquimula, 0555-0607\*, 14-12, identification in various languages, male, female, "Radio Verdad, Chiquimula, Guatemala", anthem and close down. 14321 (Manuel MÈndez, Lugo, Spain, Logs in Reinante, Sony ICF SW 7600 G, cable antenna, 8 meters, dxldyg via DX LISTENING DIGEST)

\*\* HAWAII. 620, KHNU silent since 19/11/2012, returned to the air on 18/11/13 with STA.

720, KUAI, Kekaha, format now C&W (ex-AC/Hawaiian); slogan to iKauaiiis Countryi

1060, KIPA, Hilo, silent since 20/11/2012, came back on the air on 5 November

1080, KWAI has been granted an STA (Special Temporary Authority) extension

1180, KORL, Honolulu, silent since 31/12/2012, came back on the air 5 October (via NRC DX News via Nov-Dec NZ DX Times via DXLD)

NEW STATION WATCH: CP built, moving towards licensing:

740, KCIK, Kihei ñ Granted program test authority, CP for U1 5000/5000 (AM Switch, NRC DX News Dec 23 via DXLD)

\*\* INDIA. 9445, Dec 13 at 2032, fair open carrier with flutter: must be AIR Bengaluru, during the 1945-2045 break between the 280- and 325-degree English GOSes. The // and better Bengaluru frequency, 11670, is filled with Hindi, so why waste 9445? Also poor on // 7550 Delhi

(Khampur) per Aoki as still absent from HFCC. IIRC, in a previous season, AIR belatedly put their broadcasts into HFCC months after the season was underway. At 2100, now 11670 is fair with news in English  
// very poor 9445.

11985, Dec 17 at 0059, very poor signal from presumed AIR Sinhala service; now that WRMI is on 11730 with BS, there's too much splash from it to compare 11985 with the other AIR frequency, 11740 which is supposed to be //, but which per numerous logs in October+, was often not // as 11985 did other stuff. Recently, signals from both have been too poor (Glenn Hauser, OK, DX LISTENING DIGEST)

\*\* INDIA. Winter B-13 SW schedule of All India Radio:

0000-0045 on 7270 CNI 100 kW / non-dir to SoAs Tamil  
0000-0045 on 9835 DEL 100 kW / 174 deg to SoAs Tamil  
0000-0045 on 9910 ALG 250 kW / 132 deg to SEAs Tamil  
0000-0045 on 11740\*PAN 250 kW / 120 deg to SoAs Tamil  
0000-0045 on 11985 DEL 250 kW / 174 deg to SoAs Tamil  
0000-0045 on 13795 BGL 500 kW / 108 deg to SEAs Tamil

0015-0430 on 6155 ALG 250 kW / 282 deg to SEAs Urdu  
0015-0430 on 7340 MUM 100 kW / 010 deg to SoAs Urdu  
0015-0430 on 9595 DEL 250 kW / 334 deg to SoAs Urdu  
0015-0430 on 11620 DEL 250 kW / 334 deg to SoAs Urdu

0045-0115 on 7270 CNI 100 kW / non-dir to SoAs Sinhala  
0045-0115 on 11740\*PAN 250 kW / 120 deg to SoAs Sinhala  
0045-0115 on 11985 DEL 250 kW / 174 deg to SoAs Sinhala

0100-0200 on 5990 DEL 250 kW / 334 deg to SoAs Sindhi  
0100-0200 on 7370 ALG 250 kW / 282 deg to SoAs Sindhi  
0100-0200 on 9635 ALG 250 kW / 312 deg to SoAs Sindhi

0130-0230 on 9810 ALG 250 kW / 065 deg to CeAs Nepali, inactive  
0130-0230 on 11715 DEL 100 kW / 124 deg to CeAs Nepali DRM

0215-0300 on 9835 ALG 250 kW / 312 deg to WeAs Pashto, inactive  
0215-0300 on 9910 ALG 250 kW / 282 deg to WeAs Pashto  
0215-0300 on 11740\*PAN 250 kW / 300 deg to WeAs Pashto  
0215-0300 on 13695 BGL 500 kW / 300 deg to WeAs Kannada  
0215-0300 on 15120 BGL 500 kW / 300 deg to WeAs Kannada

0300-0345 on 9835 ALG 250 kW / 312 deg to WeAs Dari, inactive  
0300-0345 on 9910 ALG 250 kW / 282 deg to WeAs Dari  
0300-0345 on 11740\*PAN 250 kW / 300 deg to WeAs Dari

0315-0415 on 11840 DEL 250 kW / 282 deg to N/ME Hindi, inactive  
0315-0415 on 13695 BGL 500 kW / 300 deg to WeAs Hindi

0315-0415 on 15120 BGL 500 kW / 240 deg to EaAf Hindi  
 0315-0415 on 15185 PAN 250 kW / 205 deg to EaAf Hindi  
 0315-0415 on 17715 DEL 100 kW / 245 deg to EaAf Hindi DRM

0400-0430 on 11670 ALG 250 kW / 282 deg to WeAs Farsi  
 0400-0430 on 15210\*PAN 250 kW / 300 deg to WeAs Farsi  
 0400-0430 on 15770 DEL 250 kW / 282 deg to WeAs Farsi

0415-0430 on 15120 BGL 500 kW / 240 deg to EaAf Gujarati  
 0415-0430 on 15185 PAN 250 kW / 205 deg to EaAf Gujarati  
 0415-0430 on 17715 DEL 100 kW / 245 deg to EaAf Gujarati DRM

0430-0530 on 11670 ALG 250 kW / 282 deg to N/ME Arabic  
 0430-0530 on 15120 BGL 500 kW / 240 deg to EaAf Hindi  
 0430-0530 on 15185 PAN 250 kW / 205 deg to EaAf Hindi  
 0430-0530 on 15210\*PAN 250 kW / 300 deg to N/ME Arabic  
 0430-0530 on 15770 DEL 250 kW / 282 deg to N/ME Arabic  
 0430-0530 on 17715 DEL 100 kW / 245 deg to EaAf Hindi DRM

0530-0600 on 11670 ALG 250 kW / 282 deg to N/ME Urdu  
 0530-0600 on 15210\*PAN 250 kW / 300 deg to N/ME Urdu  
 0530-0600 on 15770 DEL 250 kW / 282 deg to N/ME Urdu

0700-0800 on 9595 DEL 100 kW / 342 deg to SoAs Nepali  
 0700-0800 on 11850 DEL 100 kW / 102 deg to SoAs Nepali

0830-1130 on 7340 MUM 100 kW / 010 deg to SoAs Urdu  
 0830-1130 on 9595 DEL 100 kW / 342 deg to SoAs Urdu  
 0830-1130 on 11620 DEL 250 kW / 334 deg to SoAs Urdu

0845-0945 on 15770 ALG 250 kW / 132 deg to SEAs Indonesian  
 0845-0945 on 17510 DEL 250 kW / 132 deg to SEAs Indonesian  
 0845-0945 on 17875 BGL 500 kW / 120 deg to SEAs Indonesian

1000-1100 on 7270 CNI 100 kW / non-dir to SoAs English  
 1000-1100 on 13605 BGL 500 kW / 058 deg to EaAs English  
 1000-1100 on 13695 BGL 500 kW / 120 deg to SEAs English  
 1000-1100 on 15030 ALG 250 kW / 060 deg to EaAs English, inactive  
 1000-1100 on 15410 BGL 500 kW / 060 deg to EaAs English  
 1000-1100 on 17510 DEL 250 kW / 132 deg to SEAs English  
 1000-1100 on 17895 ALG 250 kW / 132 deg to SEAs English

1115-1200 on 11670 BGL 500 kW / 060 deg to SEAs Thai  
 1115-1200 on 13645 DEL 250 kW / 132 deg to SEAs Thai  
 1115-1200 on 15410 PAN 250 kW / 120 deg to SEAs Thai

1115-1215 on 7270 CNI 100 kW / non-dir to SoAs Tamil  
 1115-1215 on 9810\*PAN 250 kW / 120 deg to SoAs Tamil

1115-1215 on 13695 BGL 500 kW / 108 deg to SEAs Tamil  
 1115-1215 on 15050 DEL 250 kW / 174 deg to SoAs Tamil  
 1115-1215 on 15770 ALG 250 kW / 132 deg to SEAs Tamil  
 1115-1215 on 17510 DEL 250 kW / 174 deg to SoAs Tamil

1145-1315 on 11840 ALG 250 kW / 065 deg to EaAs Chinese, inactive  
 1145-1315 on 13605 BGL 500 kW / 058 deg to EaAs Chinese  
 1145-1315 on 15795 BGL 500 kW / 035 deg to EaAs Chinese, inactive

1215-1245 on 9810\*PAN 250 kW / 120 deg to SoAs Telugu  
 1215-1245 on 13695 BGL 500 kW / 108 deg to SEAs Telugu  
 1215-1245 on 15770 ALG 250 kW / 132 deg to SEAs Telugu, inactive

1215-1315 on 11710 DEL 050 kW / 102 deg to SoAs Burmese  
 1215-1315 on 15040 DEL 100 kW / 102 deg to SoAs Burmese

1215-1330 on 9575 BGL 500 kW / 038 deg to CeAs Tibetan  
 1215-1330 on 11775 PAN 250 kW / 025 deg to CeAs Tibetan

1230-1500 on 6165 DEL 250 kW / 334 deg to SoAs Sindhi  
 1230-1500 on 7340 MUM 100 kW / 010 deg to SoAs Sindhi  
 1230-1500 on 9620 ALG 250 kW / 282 deg to WeAs Sindhi

1300-1500 on 7270 CNI 100 kW / non-dir to SoAs Sinhala  
 1300-1500 on 9820 PAN 250 kW / 120 deg to SoAs Sinhala  
 1300-1500 on 15050 DEL 100 kW / 174 deg to SoAs Sinhala DRM

1315-1415 on 9910 DEL 250 kW / 282 deg to WeAs Dari, inactive  
 1315-1415 NF 11740\*PAN 250 kW / 300 deg to WeAs Dari, ex 11670

1330-1430 on 4870 DEL 100 kW / non-dir to SoAs Nepali  
 1330-1430 on 11775 PAN 250 kW / 025 deg to CeAs Nepali

1330-1500 on 9690 BGL 500 kW / 090 deg to SEAs English  
 1330-1500 on 11620 DEL 250 kW / 132 deg to SEAs English  
 1330-1500 on 13710 BGL 500 kW / 120 deg to SEAs English

1415-1530 on 9910 DEL 250 kW / 282 deg to WeAs Pashto, inactive  
 1415-1530 NF 11740\*PAN 250 kW / 300 deg to WeAs Pashto, ex 11670

1430-1930 on 6045 DEL 250 kW / 334 deg to SoAs Urdu  
 1430-1930 on 6155 BGL 500 kW / 060 deg to EaAs Urdu

1500-1600 on 6165 DEL 250 kW / 334 deg to SoAs Baluchi  
 1500-1600 on 7340 MUM 100 kW / 010 deg to SoAs Baluchi  
 1500-1600 on 9620 ALG 250 kW / 282 deg to WeAs Baluchi

1515-1600 on 11620 DEL 250 kW / 245 deg to EaAf Gujarati

1515-1600 on 13640 BGL 500 kW / 240 deg to EaAf Gujarati  
 1515-1600 on 15175 PAN 250 kW / 205 deg to EaAf Gujarati

1515-1615 on 9950 DEL 250 kW / 245 deg to EaAf Swahili, inactive  
 1515-1615 on 13605 BGL 500 kW / 240 deg to EaAf Swahili  
 1515-1615 on 17670 DEL 250 kW / 245 deg to EaAf Swahili

1615-1715 on 9595 BGL 500 kW / 325 deg to EaEu Russian  
 1615-1715 on 15140 ALG 100 kW / 312 deg to EaEu Russian DRM, inactive  
 [active! See Nick, below]

1615-1730 on 7250\*PAN 250 kW / 300 deg to WeAs Hindi  
 1615-1730 on 9445 DEL 250 kW / 282 deg to N/ME Hindi, inactive  
 1615-1730 on 9950 DEL 250 kW / 245 deg to EaAf Hindi, inactive  
 1615-1730 on 12025 PAN 250 kW / 300 deg to WeAs Hindi  
 1615-1730 on 13605 BGL 500 kW / 240 deg to EaAf Hindi  
 1615-1730 on 17670 DEL 250 kW / 245 deg to EaAf Hindi

1615-1730 on 9620 ALG 250 kW / 282 deg to WeAs Farsi, inactive  
 1615-1730 on 11710 ALG 250 kW / 282 deg to WeAs Farsi  
 1615-1730 on 13640 BGL 500 kW / 300 deg to WeAs Farsi

1730-1830 on 7250\*PAN 250 kW / 300 deg to WeAs Malayalam  
 1730-1830 on 12025 PAN 250 kW / 300 deg to WeAs Malayalam

1730-1945 on 9620 ALG 250 kW / 282 deg to N/ME Arabic, inactive  
 1730-1945 on 11710 ALG 250 kW / 282 deg to N/ME Arabic  
 1730-1945 on 13640 BGL 500 kW / 300 deg to N/ME Arabic

1745-1945 on 7550 BGL 500 kW / 320 deg to WeEu English  
 1745-1945 on 9445 ALG 250 kW / 282 deg to NEAf English, inactive  
 1745-1945 on 9950 ALG 100 kW / 312 deg to WeEu English DRM  
 1745-1945 on 11580 DEL 250 kW / 282 deg to NoAf English  
 1745-1945 on 11670 BGL 500 kW / 325 deg to WeEu English  
 1745-1945 on 11935 MUM 100 kW / 250 deg to CEAf English  
 1745-1945 on 13695 BGL 500 kW / 240 deg to EaAf English  
 1745-1945 on 17670 DEL 250 kW / 245 deg to EaAf English

1945-2030 on 9620 ALG 250 kW / 282 deg to NWAf French, inactive  
 1945-2030 on 11710 DEL 250 kW / 282 deg to NWAf French  
 1945-2030 on 13640 BGL 500 kW / 300 deg to NWAf French

1945-2045 on 7550 BGL 500 kW / 320 deg to WeEu Hindi  
 1945-2045 on 9950 ALG 100 kW / 312 deg to WeEu Hindi DRM  
 1945-2045 on 11670 BGL 500 kW / 325 deg to WeEu Hindi

2045-2230 on 7550 BGL 500 kW / 320 deg to WeEu English  
 2045-2230 on 9445 BGL 500 kW / 325 deg to WeEu English

2045-2230 on 9910 ALG 250 kW / 132 deg to SEAs English  
2045-2230 on 9950 ALG 100 kW / 312 deg to WeEu English DRM  
2045-2230 on 11620 BGL 500 kW / 120 deg to SEAs English  
2045-2230 on 11670 BGL 500 kW / 325 deg to WeEu English  
2045-2230 on 11740\*PAN 250 kW / 120 deg to SEAs English

2245-0045 on 9690 BGL 500 kW / 090 deg to SEAs English  
2245-0045 on 9705 PAN 250 kW / 120 deg to SEAs English  
2245-0045 on 11645 DEL 100 kW / 065 deg to EaAs English DRM  
2245-0045 on 11710 ALG 250 kW / 132 deg to SEAs English  
2245-0045 on 13605 BGL 500 kW / 058 deg to EaAs English

2300-2400 on 9910 ALG 250 kW / 132 deg to SEAs Hindi  
2300-2400 on 11740\*PAN 250 kW / 120 deg to SEAs Hindi  
2300-2400 on 13795 BGL 500 kW / 108 deg to SEAs Hindi  
\*in some days plus approximately 4000 Hertz (Ivo Ivanov, DX RE MIX  
NEWS #825, December 15, 2013, via WORLD OF RADIO 1700, DXLD)

Dirty signal of India R in DRM mode, 50 kHz wide! And this was on the  
back of their beam... [15140]  
<http://goo.gl/mOKNzt>

Thanks, (Nick VK2DX Hacko, <http://nickvk2dx.blogspot.com.au/> Dec 16,  
dxldyg via WORLD OF RADIO 1700, DX LISTENING DIGEST) See KASHMIR; UAE

DRM India Chapter Noticeboard Dec 2013 edition is available at :  
<http://tinyurl.com/oz4wpuf>

Main stories :

- Hot off the Press!! - Frontier Silicon to deliver multi-standard chip
- India - National Disaster Management Authority Workshop in Gujarat Features DRM
- Summary - DRM Webinar November 18th 2013
- New Commercial DRM station - United Arab Emirates
- Broadcast Engineering Society (BES) India Conference and Exhibition 2014
- Good news for DRM in Asia!
- SOUTH AFRICA - Screen Africa Interviews DRM Marketing Director
- DRM Consortium Supports Important 2014 Digital Radio Broadcasting in Africa Conference
- RFmondial integrates Fraunhofer DRM MultimediaPlayer technology for India's digital radio programme
- Starting to build a Radio Receiver
- DRM Enterprise Award - Apply now!

Back issues of newsletters are available at :



[http://www.drm.org/?page\\_id=320](http://www.drm.org/?page_id=320)

--- (Alokesh Gupta, New Delhi, Dec 17, dx\_india yg via DXLD)

\*\* INDIA [non]. 7545, Dec 12 at 0057, poor signal with calm talk in unknown language, intonation vaguely resembling Brazilian. HFCC has the answer? 0030-0130, TWR, multi-lingual, 250 kW, 116 degrees from ``Simferopol, Ukraine``, which is total BS left over from the Soviet era when this ``site`` was registered instead of something really back in Russia, and wouldn't be caught dead relaying religion.

Aoki still shows as UKRaine, but doesn't hazard a guess as to what city, but anyhow it's TWR India, currently in Bhojpuri, but Sundays in Hindi, Saturdays in Nepali. Many other TWR India broadcasts are overtly via UZBEKISTAN, so why not this one? Let's get a third opinion from EiBi: site is /XUU, which means Unknown! What's so secret here? A fourth opinion from WRTH 2013, when in B-12 this transmission was on 11965, via: Irkutsk, Russia. What's in WRTH 2014? Just published but my copy hasn't arrived yet (Glenn Hauser, OK, DX LISTENING DIGEST)

\*\* INDONESIA. 9525.88, V. of Indonesia, Dec 11 1310-1319, 44443-43443, English, News, ID at 1313.

9525.88, V. of Indonesia, Dec 13 1247-1253, 3243,2 Japanese, Music, ID and URL announce at 1248 (Kouji Hashimoto, JAPAN, RX, IC-R75, NRD-525+RD-9830, NRD-515, NRD-345, Satellite 750, DE-1121, ANT, 70m Sloper Wire, DX LISTENING DIGEST)

9526-, Dec 17 at 1454, VOI makes its presence felt by 4+kHz het against 9530 China radio war, and <1 kHz het against 9525, I suppose CRI Kashgar, already on air prior to 1500 English. Some music too, not sure from which transmitter but probably CRI prÈlude (Glenn Hauser, OK, DX LISTENING DIGEST)

Hi Glenn, Have checked VOI for several Tuesdays (Dec 3 & 10) at 1000, looking to confirm iExotic Indonesiaî with "100.9 Paradise FM, RRI Denpasar.î Before 1000 had fair-good reception of VOI (totally in the clear), but that ended at 1000 when CNR1 started jamming VOA on 9530. The adjacent splatter rendered VOI unusable. Most unfortunate, as VOI signal was so good before 1000 (Ron Howard, San Francisco, Dec 17, dxldyg via DX LISTENING DIGEST)

\*\* INTERNATIONAL INTERNET. Btw, indeed the whole on-demand audio service of WRN is gone since yesterday as announced (Kai Ludwig, Germany, Dec 17, dxldyg via WORLD OF RADIO 1700, DX LISTENING DIGEST)

\*\* IRAN [and non]. 7370, Another bad mixture of two programs logged on both even 7370.0 kHz outlets, VOIRI Tajik service 0050-0217 UT, and AIR Singalese? service at 0130 UT Dec 15 (Wolfgang B.schel, wwdxc BC-

DX TopNews Dec 15, dxldyg via DXLD) Yet another collision which might have been avoided if AIR participated in HFCC (gh, DXLD)

17840, Dec 14 at 1340, Qur'an from Iran's Arabic service via Zahedan is about equal level to ROMANIA with other music, unholy mixture making SAH between 4 and 5 Hz. Here we are, a sesquimonth into the B-13 season and these two still have not terminated the totally unnecessary collision at 1300-1420 on a band with so many open channels. Yes, I am in the target of neither, but I can't believe each is QRM-free in their own targets, Africa and Europe (Glenn Hauser, OK, DX LISTENING DIGEST)

\*\* ISRAEL. Galei Zahal QRT on Short wave -- Hi Glenn, bad news concerning Galei Zahal short wave broadcasts. They have been missing for over a week and I feared the worst. This message confirms they have discontinued 15850 and 6885 kHz. Another country lost to us short wave listeners. Regards, (Alan Holder, Isle of Wight, UK, Dec 15, WORLD OF RADIO 1700, DX LISTENING DIGEST) Viz.:

Short wave frequencies --- Dear Friends, For several days I have noticed the short wave frequencies 15850 and 6885 kHz have been missing. Please can you let me know - are they closed down completely, or is there a technical problem? It has always been a pleasure to listen to your programmes on a simple portable radio, instead of using the computer and I am missing the broadcasts a lot. Hoping to hear from you, Alan Holder, Isle of Wight, ENGLAND (to Galei Zahal, via DXLD)

[original reply has headings in Hebrew]  
On Sunday, 15 December 2013, 8:11,  
??? ?????? <eran@galatz.co.il> wrote:

Dear Mr. Holder, Thank you for contacting us regarding our short-wave broadcast. Due to financial and budget re-organizing we decided to end our broadcast in the mentioned frequency. Our global listeners can use our on-line service:  
<http://player.glz.co.il/Player.aspx?ClipID=glz-a-zixief&Type=live&Width=300&Height=200&FixedPoster=true&FixedPosterName=GLZ.jpg>

I apologize for any inconvenience made to you by our decision.  
Sincerely, Eran Elyakim, Ombudsman, Galei-Zahal  
<http://glz.co.il/1402-17942-he/Galatz.aspx>  
(via Alan Holder, WORLD OF RADIO 1700, DXLD)

This is disappointing. My last recorded copy of Israeli was on November 30, 14:10 UTC at 15850. Weak and noisy, pop/rock music, short segments YL announcer. Unfortunately no station ID. Is it fair to assume that in 3 years time, SWL listener will have a choice of tuning

into one of 800 Chinese broadcasters, Radio New Zealand and Overcomer? The goal of reaching 100 DXCC is now looking even less possible. 73 (Nick VK2DX Hacko, NSW, dxldyg via DX LISTENING DIGEST)

Galei Zahal ha abbandonato le onde corte --- A conferma di quanto detto stamattina a Studio DX, vi confermo che Galei Zahal ha abbandonato le onde corte, i 15850 e i 6885 kHz sono muti ormai da settimane e l'email ricevuta da Alan Holder e pubblicata da Glenn Hauser sulla sua mailing list ne spiega i motivi: (Roberto Scaglione, bclnews.it yg via DXLD)

\*\* ITALY. 10000, Time Signal Station Italcable, 1924-1935, 13-12, time signals, time male announcements in Italian, classic music. 14321. Also 0656-0705, 15-12, time signals, between seconds 55-00 pulses, male announcements in Italian: "Hora sete e cincuentaesete", classic music between second 05 and 55. 34433 (Manuel MÈndez, Lugo, Spain, Logs in Reinante, Sony ICF SW 7600 G, cable antenna, 8 meters, dxldyg via DX LISTENING DIGEST) see also EUROPE

\*\* ITALY [non]. 15515, IRRS (Tiganeshti?) 1517-1529\* 13 Dec. English program with chat about computers/email, IRRS close-down ID/info at 1529 & off. Aoki has IRRS here Fri/Sat with "Oromo Voice" at 1500-1530 in Somali/Oromo, but no English -- someone's playing silly buggers with the tapes at IRRS studios, I bet (Dan Sheedy, Swami's Beach, CA, G5/6m X wire, DX LISTENING DIGEST)

\*\* JAPAN. QSL card received from Radio Nikkei 1, by Nikkei Radio Broadcasting Corporation, Japan. Logged on 3925 kHz. Probably one of the easiest BC to confirm!

Nikkei is the largest business newspaper publisher paper in Japan and owner of the RN1. RN1 is a domestic station, and as such, transmits in Japanese only. Except for a program called: "Let's read Nikkei in English" . 22:30 - 23:00 JST [Thursday] and 17:30 - 18:00 [Saturday] for " ... Japanese business man learning English".

Had no time to listen this week due to major antenna re-work but the new baby is now up in the sky and I can finally start looking for little gems above 13 MHz. Antenna pic:  
<http://nickvk2dx.blogspot.com.au/>  
73 (Nick VK2DX Hacko, Sydney, dxldyg via DX LISTENING DIGEST)

\*\* JAPAN [non]. 7395, Dec 14 at 0343, neat African(?) music with ululations, 0345 talk, good signal S9+20. It's NHK's Swahili service at 0315-0400, 320 degrees from MADAGASCAR and also USward (Glenn Hauser, OK, DX LISTENING DIGEST)

\*\* KASHMIR. AIR Leh is not heard lately on 4660 kHz. They were on this

frequency for very long time instead of official frequency of 4760 kHz. Anybody in North India etc. hearing them? The current schedule is 0213-0430, 1130-1630 UT. Yours sincerely, (Jose Jacob, VU2JOS, National Institute of Amateur Radio, Hyderabad, India, Mobile: +91 94416 96043, <http://www.qsl.net/vu2jos> Dec 17, dx\_india yg via WORLD OF RADIO 1700, DXLD)

\*\* KOREA NORTH [and non]. 6100, Dec 12 at 1310, two very poor signals making a SAH, one in Korean, i.e. KCBS Pyongyang which just starts at 1300, per Aoki; and the other presumably CRI Mongolian service via Urumqi, East Turkistan, also from 1300; blotting out poor 500-watt R. Rossii, Kyzyl, Tannu Tuva if it's on the air at all (Glenn Hauser, OK, DX LISTENING DIGEST)

6140, JAPAN Shiokaze/Sea Breeze (P) DEC 13, 1425. Monologue by W, to mention of "Tokyo, Japan", and off at BoH. Poor-fair, very hard to understand due to ACI from crash and bang Chinese jammer on 6145 (Rick Barton, AZ, Dec 13, DX LISTENING DIGEST)

\*\* KOREA NORTH [non]. 9775, Dec 12 at 1344, good signal with love songs in English! Usually there is only a protracted open carrier prior to 1400 Radio Free Chosen via secret site. First a duet, and some segues with no pauses so not from a single album track; 1355 ``I'm stayin' for the long run``; 1358 Janis Ian's heartbreaking tune ``At 17`` covered by someone else. Celine Dion has also done it.

Janis' live performance from 1976y:

<http://www.youtube.com/watch?v=VMUz2TNMvL0>

Lyrix:

<http://www.metrolyrics.com/at-seventeen-lyrics-janis-ian.html>

1400 with no transmission or modulation break, 9775 segue into usual Radio Free Chosun's triumphal-music and opening in Korean. What a strange prelude for that! Surely more entertaining than dead air.

Today's signal is even better than 9800 VOA Korean via Philippines, with only lite fading. I continue to disbelieve the listed and conflicting sites for this, Tajikistan or Uzbekistan, which would not put in such a loud and clear signal transpolar from here, altho other loggers continue to accept one site or another. To me, it appears to be from SE Asia area, like Philippines (RVA Palauig) or maybe Taiwan, whence aiming at Korea also carries on USward with no transpolar attenuation.

Am I ``upset`` about this as Mark Coady suggests? Not at all, but it's an intriguing mystery to be investigated lacking any admission from the source.

9775, Dec 13 at 1337, I'm rechecking the secret R. Free Chosun transmitter, since yesterday it broadcast a musical prÉlude in English. First the carrier is cutting on and off the air several times, 1340 stays on, 1342.7 starts the seguÉ songs; same ones as yesterday including at 1353 ``I'm Stayin' for the Long Run``. Seems it was originally by The Eagles, but don't know what YM is singing it now, with YLs backup; 1359, ``At Seventeen`` is playing again too, 1400 into RFC opening in Korean. Once again the 9775 signal rivals if not surpasses VOA Korean via Philippines on 9800, and no way 9775 is transpolar from Uzbekistan or Tajikistan, disinformation in the listings.

9775, Dec 14 at 1342, open carrier with flutter, from R. Free Chosun via secret site; for third day in a row, prÉlude of same romantic songs in English, tho modulation starting a bit later at 1347.5; 1352 ``Here for the Long Run`` again, and 1358 ``At Seventeen`` again, 1400 into RFC theme and hyper-assertive Korean opening (trying to sound like ``Vox Dei` DPRK TV announcers??).

Also some flutter on 9800 VOA Korean via Tinang, Philippines; propagation is disturbed today as both these usually escape the variable auroral zone. Standard remark about disinformation regarding true site of RFC.

9775, Dec 15 at 1345, R. Free Chosun's romantic musical prÉlude in English is on again, same songs for fourth day in a row, YM & YL duet, ``We'll go thru life together``; 1357 ``At Seventeen``. Good signal comparable to 9800 VOA Korean Tinang.

9775, Dec 16 at 1344 still no signal from R. Free Chosun secret site, whilst 9800 VOA Korean Tinang is VG. Finally \*1351:10 carrier on 9775 and 1351:27 bringing up the romantic music in English prÉlude, as one piece is just ending; then ``I'm stayin' for the long run`` again, 1359 recheck, ``At Seventeen`` yet again, and 1400 cut to RFC opening theme and over-assertive sign-on in Korean. Today the signal is comparable if not better than 9800 VOA; no way it's transpolar from Uzbekistan or Tajikistan.

9775, Dec 17 at 1351, carrier is on, but no English musical prÉlude today, after doing that the past five days; until R. Free Chosun theme and sign-on at 1400; again signal comparable to 9800 VOA Korean via Tinang. 1503 recheck, 9775 still in well with music and 9800 is off, until the latter carrier comes back on at \*1503-1505\* (Glenn Hauser, OK, DX LISTENING DIGEST)

9775, Dec 18 at 1351, open carrier is on, then adding music at 1351.5. After no music yesterday, now R. Free Chosun prÉlude has new tunes in English rather than the same ones they were repeating daily before

that. Not recognizable, but some with an Xmas theme; pauses between these, so maybe from same album tracks.

1400 as usual opening RFC with theme music and hyper-assertive sign-on. Recheck 1503, now hard rock vocal song in Korean. And once again, VG signal comparable to 9800 VOA Korean via Philippines (until it quits at 1500), whence 9775 could also emanate, surely not transpolar from Uzbekistan or Tajikistan as per disinformation in the registrations (Glenn Hauser, OK, WORLD OF RADIO 1700, DX LISTENING DIGEST)

\*\* KOREA SOUTH. 6348, Dec 12 at 1307, Korean talk, very poor, from Echo of Hope, Hwaseong; no jamming audible but likely there is some noise from Kujang as per Aoki (Glenn Hauser, OK, DX LISTENING DIGEST)

\*\* KOREA SOUTH [non]. 9955, Dec 11 at 1337, WRMI is still relaying KBS World Radio instead of Slovakia during this semihour, good with pop music, and 1339 ID, so now I can hear the Wednesday feature 'Sounds of K'rea'. Theme this week is music for exorcising demons and warding off evil spirits, inspired by wacky superstitions. 1357 quiz with three questions; \*1357.7-1358.0\* another carrier on and off, the other WRMI transmitter getting all set. Continued under USA: WRMI.

9955, Dec 12 at 1340, still KBS World Radio, Thursday ending Korean folk-tale segment of 'Seoul Calling', into program about 'political fever' in Korea North.

9955, Dec 13 at 1351, instead of Slovakia, KBS World radio still via WRMI, discussion about sanctions vs North Korea; 1358 quiz questions again, cut off before e-mail address can be uttered, for 'WRMI Scoreboard' just before 1359; fair signal before beam change from SSE to NW during Scoreboard had been much weaker than BS on 9690 to the west (285 degrees, same as on 11730 in evenings), which still hasn't moved off AIR's frequency. Then 9955 is much stronger for Zanotti ID and at 1400 'Words of Life' from Georgia (Glenn Hauser, OK, DX LISTENING DIGEST) But no more from Dec 16; see U S A WRMI

\*\* KURDISTAN [non]. 11510-, Dec 15 at 1425, Denge Kurdistan, fair with music, ululating, and usual IADs; presumed PRIDNESTROVYE site at this hour. Frequency is slightly on lo side (Glenn Hauser, OK, DX LISTENING DIGEST)

\*\* KUWAIT. 15515, R. Kuwait:

Dec 10 0720-0732 45433 Arabic, Arabic music and talk, ID at 0722,  
Dec 12 0652-0706 35433 Arabic, Talk and arabic music and news, ID 0700  
Dec 14 0529-0543 34433 Arabic, ID at 0530, Arabic music and talk  
(Kouji Hashimoto, JAPAN, RX, IC-R75, NRD-525+RD-9830, NRD-515, NRD-345, Satellite 750, DE-1121, ANT, 70m Sloper Wire, DX LISTENING

DIGEST)

[and non]. 21540, 15/Dez 1433, A mixture of signals between R Kuwait and REE. Low modulation. In my QTH predominates audio R Kuwait. In SDR Twente, the signals alternate with irritating bursts73 (Jorge Freitas, Feira de Santana, Bahia, 12 14YS 38 58YW - Brasil, dxldyg via DX LISTENING DIGEST)

\*\* KYRGYZSTAN. 4009.966, Kyrgyz Radio, Bishkek noted at 0040 to 0100 UT in Russian(!) language section, not Kyrgyz, latter service which started at 0100 UT Dec 15. 0102 UT female Kyrgyz program with romantic string instrument melody and bird chirping.

{non} 4050 kHz Radio Rossii relay is OFF service few months duration now, at least since summer 2013.

4795.000, Less strong than 4010v, though only 15 kW according see WRTH 2014 book, Kyrgyz Radio Bishkek in vernacular ?Kyrgyz, only S=7 signal in Europe, observed at 0040 til 0105 UT slot (Wolfgang B.schel, wwdxc BC-DX TopNews Dec 15, dxldyg via DXLD)

\*\* LATVIA. ARCTIC RADIO CLUB-special Christmas programs --- Radio Merkurs in Riga, Latvia will broadcast special programs for ARC on 22 and 28 December 2013 via the transmitter near the seaside resort Jurmala on the Latvian west coast broadcasting on 1485 kHz. The schedule is 1500-1600 Swedish time = 1400-1500 UT.

The programs will be produced by the ARC member Ronny Forslund (Ronnie Be Good) and every member that wants to send a special dedication can do so. Send your mp3 file with your Christmas greetings and your music request to info@rock.x.se If you have a recording of your requested music include it.

ARTIC RADIO CLUB will issue a special QSL-card for this event. Send your report and mp3-file to: info@rock.x.se or ARC, c/o Ronny Forslund, Vita Huset, SE-17995 SVARTSJÖ, SWEDEN (Bengt Ericson, Nov 21, WORLD OF RADIO 1700, DX LISTENING DIGEST)

\*\* LEBANON. (ham), OD5ZZ, 18150, 1512+ 18 Dec. Op. Walid in Tripoli working an IV3 & a WD8 (in WVa) (Dan Sheedy, Swami's Beach, CA G5/6m X wire, DX LISTENING DIGEST)

\*\* MADAGASCAR. 5010.55, R. Madagascar - Ambohidrano. Spotted this while checking to see if R. Bata was on 5005. Just caught the last two minutes before s/off at 1906 with closing in both Malagasy and French. Other reports have had this one up as high as 5014.9 so it's still wonders around. Indeed, in my two minutes of observation before it left the frequency, there was wobble in the signal when listening in

USB. Fair on Dec 16. Incidentally, no sign of Bata (Rob Wagner VK3BVW, ARDXC mailing list via DXLD)

\*\* MALAYSIA. 7295, Traxx FM (tentative); 2203-2300+, 13-Dec; M&W English announcers with oldies; Tentative mention of Kuala Lumpur; I thought I heard a spot mentioning "Radio M" (maybe RTM--I've heard that.) Fair peaks at times between ham QRMs. Obliterated by CRI s/on at 2300 in Chinese via China (Harold Frodge, M.A.R.E. DXpedition, Brighton MI, Drake R8B + 500' NEish untermated bev + 85' TTFD, All logged by my ears, on my receiver, in real time! DX LISTENING DIGEST)

\*\* MALI. Carrier observed from 16 to 17 UT on 15125 but no modulation. Presumably R China from Bamako, Mali? Is this transmitter site still active?

[AND NON] Dirty signal of India R in DRM mode, 50 kHz wide! and this was on the back of their beam [15140]

<http://goo.gl/m0KNzt>

Thanks, (Nick VK2DX Hacko, Dec 16,

<http://nickvk2dx.blogspot.com.au/>

dxldyg via DX LISTENING DIGEST)

Also observed here today (17 Dec) on 15125 with open carrier until 1700. Certainly the propagation reminiscent of Bamako relay (Bob LaRose W5ACU San Diego, CA, ibid.)

Hi - In October, I sent a report for this transmitter site and transmission (including recording, on which the modulation was very low but audible) to the English Section at CRI requesting a QSL, and received a verification. Thank goodness, since Mali's own radio service (whose signal is not bad at all) does not seem to respond these days (Bruce Jensen, ibid.)

Thank you Bruce - got 'em! Very strong carrier but painfully low modulation, as per your observation. At least, they are sitting on a clear frequency. One hour transmission in presumed Arabic with Chinese music. Images and recording blogged at <http://nickvk2dx.blogspot.com.au/>

LOG: 15125, CRI Bamako, Mali, 17/12 1558-1703 in presumed Arabic. [N Hacko, VK2DX Sydney] 73! (Nick, ibid.)

\*\* MEXICO. 820, Dec 16 at 1310 UT, world news in Spanish, poor but clear with WBAP in a fade and nulled, making a slow SAH with it; 1312 timecheck for 7:12 before WBAP resurges. CST rules out Los Mochis or Mexicali (unless relaying DF without correction), and makes this one in northern Mexico most likely source, per Cant':

820 XEDRD W Radio + FM 106.1 Durango, Dgo. 10,000 500

(Glenn Hauser, OK, DX LISTENING DIGEST)



\*\* MEXICO. 870, Dec 13 at 1317, XETAR ID and explaining instructions for submitting PSAs, what is acceptable/eligible and what not, 6:17 timecheck, all in Spanish. The Tarahumara daytime station in Guachochi, Chihuahua (Glenn Hauser, OK, DX LISTENING DIGEST)

\*\* MEXICO. 930, XEU La U de Veracruz, Veracruz, Veracruz. 1144 December 10, 2013. Briefly up among several domestics with male XEU ID into Spanish ballad. First log of this in a long time (Terry L Krueger, Clearwater, Florida, JRC NRD-535; JRC-NRD-515 (borrowed); ICOM IC-R75; Hammarlund HQ-180A; Sony ICF-7600GR; Sangean PR-D5; Aqua Guide 705 RDF Marine Radio; GE Superadio III; JPS NF-60 Notch Filter; JPS ANC-4 Noise Phase; 1 X roof dipole; 1 X room random wire; Terk Advantage non-active portable loop, DX LISTENING DIGEST)

\*\* MOROCCO. 9575.00, R. M'edi Un, Dec 14 0708-0720, 45343, Arabic and French, News and music, ID at 0715 and 0719 (Kouji Hashimoto, JAPAN, RX, IC-R75, NRD-525+RD-9830, NRD-515, NRD-345, Satellite 750, DE-1121, ANT, 70m Sloper Wire, DX LISTENING DIGEST)

9575, MOROCCO (Spanish [historical radio country, not lately! -- gh]). Radio M'edi Un n Nador (presumed), 0410-0516, Dec 14. Middle Eastern music program hosted by a male announcer with brief Arabic language talk. Missed ID at 0500 but a woman announcer followed with news. Return to music program at 0510 hosted by a woman announcer with French language talk. Poor to fair (Rich D'Angelo, 2216 Burkey Drive, Wyomissing, PA 19610, Ten-Tec RX-340, Drake R-8B, Eton E1, Eton E5, Alpha Delta DX Sloper, RF Systems Mini-Windom, Datong FL3, JPS ANC-4, NASWA Flashsheet Dec 15 via WORLD OF RADIO 1700, DXLD)

\*\* MYANMAR. 7200.088, Tentatively Myanmar Radio Yangon, weaker signal here in Germany, than all Chinese CNR radios in 41 meterband from Lhasa, Kashgar or Urumchi at 01-02 UT slot Dec 15. Signal faded between S=7 up to S=9+20dB. Light music orchestra played. Hit heavily by adjacent PBS Xinjiang China in Uighur language service. Tentatively Myanmar Radio heard also weak on 6165 kHz, underneath of BBC Oman Hindi/Urdu program co-channel (Wolfgang B.schel, wwdxc BC-DX TopNews Dec 15, dxldyg via DXLD)

\*\* MYANMAR. 9730v Myanmar Radio Yangon ---Thanks to a tip of Noel Green in Blackpool England:

This 50 kW outlet from Rangoon is often odd in frequency some 846 Hertz higher side. But in past weeks Noel Green and Y.T. observed that Rangoon outlet few times on EVEN 9730.0 frequency instead. Although the signal is only strong on Victor's remote site on Ceylon island {and I guess general in SoAS and SoEaAS too}, instead is very weak level on other remote places of the worldwide remote network.

Signal peaks occurred sometime even here in central Europe in winter months Nov, Dec, and Jan only. Today Dec 12 at 1020 {I guess on air 1150? } UT used Mauno's unit in northern Finland, narrowed the receiver bandwidth to 2.5 kHz on 9730 to 9732.5 kHz.

Adjacent QRM today was a ute noise data signal on 9724.6 to 9727.3 and more accompanied ute splash sidebands on 9719.8 to 9732v kHz.

On Upper side noted CNR1 jamming on 9735 kHz against RTI CBSD Paochung Cantonese service at 1000-1030 UT ONLY!, the followed RTI Hakka service 1030-1100 UT WAS NOT been jammed by China mainland so far.

re ITU call for Myanmar (former Burma, member since 15 Sept 1937) Chaotic on ITU Geneve list now again short call BRM - or formerly MYA, or previously MMR!)

[http://www.itu.int/online/mm/scripts/mm.list?  
\\_search=1&\\_map=n&\\_search\\_countryid=42&\\_country=BRM](http://www.itu.int/online/mm/scripts/mm.list?_search=1&_map=n&_search_countryid=42&_country=BRM)

vy73 de wolffy df5sx (Wolfgang B,schel, Dec 12, dxldyg via DX LISTENING DIGEST)

9730, 13/Dez 1025, Myanma Radio (TENTATIVE) in Burmese (listed). OM talk, at 1028 YL talk, quick instrumental music. Very weak signal and degrading. I'll try other days earlier (Jorge Freitas, Feira de Santana, Bahia, 12 14XS 38 58XW - Brasil, dxldyg via DX LISTENING DIGEST)

George, I was listening at the same time until the station s/off around 1059 UT, 9730 kHz. They were covering the SEA Games in Ney Pyi Tau. This appears to be a different transmitter from the one which was on 9730.84.

In addition the 0930-1630 transmission is heard ONLY FROM 1530 on 5985 kHz in the last 3 weeks or so. 5915, 6030, 6165, 7345, 9460, 9590 kHz appear to be holding their normal freq sked! (Victor Goonetilleke, Colombo, Sri Lanka, Dec 13, ibid.)

Hi Victor, Today I listened with better signal. This time I understood that it was broadcasting a game.

9730, 14/Dez 0939, Myanma Radio (PRESUMED) in Burmese/dialect (listed). OM with monotonous speech. It appears that narrates something. Between the lines you hear in the background what appears snare drums. At 0948 rapid exaltation. The 0949 short break speech of OM. I would say it seems to be a narration of some sport. At 1000 beep signal, but OM continues with the narration. Today with better signal.

At 1011 The signal abruptly disappears. At 1018 the signal back, but no audible modulation. 25332.

<http://www.ipernity.com/doc/75006/28882425>

Thank you 73 (Jorge Freitas, ibid., WORLD OF RADIO 1700)

9730, 16/Dez 0838, Myanma Radio in Burmese. Local pop music. At 0842 quick talk of YL, then recorded speech OM. At 0844 more local pop music. Follows with speeches YL, recorded interviews and pop music. 24332.

<http://www.ipernity.com/doc/75006/28926379>

73 (Jorge Freitas, Feira de Santana, Bahia, 12 14XS 38 58W - Brasil, ibid.)

9730.00, Myanmar Radio, 1031-1130\*, Dec 17. In vernacular with sports coverage from the SEA Games being held in Myanmar; background sounds of the crowds at the event; usual format of indigenous theme music before going off; at times almost fair. Dec 9 noted randomly from 0911 to 1130\*. As others have already reported, they are no longer switching between off frequency and exact frequency transmitter here. Brief audio attached (Ron Howard, San Francisco at Ocean Beach, CA, EtUn E1, dxldyg via WORLD OF RADIO 1700, DX LISTENING DIGEST)

Yangon SW Site update (Myanmar Radio) Myanma Radio - Yangon ñ Yegu SW TX site TXer & Feeder Lines Review ñ (Shortwavesites YG)

In Myanmar -- Government run station from 1958. The big one is 50 KW RCA looking left is a SW rig and Right is a SW RIG and the one by itself is in the room before the Hall another SW Rig. All RCA (Daniel Carpoco)

They are talking about redoing the government communications for the country (Jerry Kiefer)

Jerry is correct. It is down, they currently run an AEG rig in another building for Analogue-- Also being replaced; updated is all the TX lines and transition to the open feed lines (Daniel Carpoco)

They do still originate SW from this site. They utilize a BBEF/Continental Copy to achieve it. They have three RIZ txs, one not running the other two to back up bbef (Daniel Carpoco)

2 Main Alt Configured 100 KW transmitters- -AEG--- W Germany vintage 1987. TX line and Open TX line feeds built by AE/Telefunken (Daniel Carpoco)

Continental SW Rig --- Itis a BBEF Copy of the Continental. The RIZ TXs are not on the air and don't run unless the BBEF Fails (Daniel Carpoco)

Harris 3DX100 running DRM. They flip between DRM and AM frequently  
(Daniel Carpoco)

ITPOTS-FB-Dec2013

So if I summarize (correctly I hope?), that have 3 x RCA 50 kW (not operational), 2 x 100 kW AEG (status?), 3 x RIZ TXers (one not operational, 2 in standby), 1 x BBEF Continental clone & 1 x Harris 3DX100 swapping between DRM & Analogue usage. Feeder lines currently being replaced (Ian Baxter, all SWSites yg via DXLD)

Never seen any reports of DRM being heard out of Myanmar. What was this? Reads like transcript of a video interview (gh, DXLD)

\*\* NETHERLANDS {non}. Don't forget about the Mighty KBC 7375 kHz via Nauen, Germany 0000-0200 UT. Decent reception. S9 +10 dB to S9 +20 dB at my QTH. My "Forgotten Song" segment is probably on near 0145 UT. 73, (Kraig, KG4LAC, Krist, 0120 UT Dec 15, dxldyg via DX LISTENING DIGEST)

7375, UT Sunday Dec 15 at 0145, The Mighty KBC is back to good signal this week with rock music, even OK on the G8 with whip only; 0150 Eric is interviewing ``Mr. Spencer`` about healing by laying hands on the radio, resulting in screams (watch out for those hot tubes, or hot chassis!). Kraig Krist's ``Forgotten Song`` segment was expected to air in this quarter-hour, but I still missed it (Glenn Hauser, OK, DX LISTENING DIGEST)

14 December 2013, Posted on The Mighty KBC Facebook page today:

Mighty KBC Christmas Schedule --- The Wolf is also back on 6095 AM, 5 weeks long. Our schedule for:

Saturday 21 & 28 December 2013

Saturday 4, 11 & 18 January 2014

0900 - 1100 Emperor Rosko

1100 - 1200 Dave Mason

1200 - 1400 Wolfman Jack

1400 - 1600 Mike Marwick

All times in UT. After January 18 go back to normal Saturday schedule

And on 7375 kHz The Wolf Is Rocking Over The Ocean between 0000-0200 UT, 23, 24, 25, 26 & 27 December, Rock & Roll with Wolfman Jack on The Mighty KBC! (via Mike Terry, Dec 14, dxldyg via WORLD OF RADIO 1700, DXLD) via GERMANY

Extra broadcasts on 7375 kHz to the USA

Monday 23 December 0000-0200 Wolfman Jack

Tuesday 24 December 0000-0200 Wolfman Jack  
Wednesday 25 December 0000-0200 Wolfman Jack  
Thursday 26 December 0000-0200 Wolfman Jack  
Friday 27 December 0000-0200 Wolfman Jack  
Saturday 28 December 0000-0200 The Giant Jukebox - Eric van Willegen  
Sunday 29 December 0000-0200 The Giant Jukebox - Eric van Willegen  
(via Richard Lemke, Dec 18, WORLD OF RADIO 1700, DX LISTENING DIGEST)

\*\* NEW ZEALAND. 9625-9630-9635, Dec 12 at 1315, DRM noise on fairly good signal, maybe would be decodable, where none is normally heard, nor scheduled to be --- just VOR on 9620-9625-9630, 15 kW, 220 degrees from Kaliningrad/Bolshakovo at 08-14.

Instead, I bet it's RNZI operating off-schedule again, as 9630 is its next DRM frequency not supposed to start until 1551 per HFCC B-13. Or not! Checking the never-dated but frequently-updated sked on RNZI's own site,

<http://www.radionz.co.nz/international/listen>

11900 is now shown as DRM from 1551, following the no-DRM break starting at 1158; so the DRM transmitter is available to broadcast somewhere. 11900-DRM is also in EiBi but not until 1651! While Aoki shows it starting at 1535! What are we to believe??

DRM centered on 9630 is still on at 1402 check, now rudely QRMing RTI 9625-AM in Vietnamese.

[and non]. 5950, Dec 13 at 1347, song in English, so RNZI is finally back on proper frequency, after using A-13's 6170 every Friday in the B-13 season until now, vacant.

9625-9630-9635, Dec 13 at 1350, NO DRM noise today unlike yesterday from presumed RNZI; so the 9625 carrier already on from RTI is in the clear, and also after 1400 in Vietnamese.

5950 & 6170, Dec 14 at 1422 check, RNZI not audible on either, nary a carrier: suspect totally off the air (or on a third, wrong frequency?), as Australia 5995 in well enough and also audible on 5940; no wrong DRM on 9625-9635 either.

5950, Dec 15 at 1337, RNZI is in well, interviewing a PhD in Maori studies, while missing 23 hours earlier (Glenn Hauser, OK, DX LISTENING DIGEST)

Frequency change of R New Zealand Int. from Dec 14:  
1059-1258 NF 13840 RAN 100 kW / 325 deg NWPac/PNG/Timor/Asia, ex-15720  
(Ivo Ivanov, DX RE MIX NEWS #826 December 16, 2013, via DXLD)

\*\* NICARAGUA. 8989/USB, El Buen Pescador (presumed); 2347...2406+, 13-

14-Dec; M huxter in Spanish; seems to talk to someone on the side at times; mentioned all Central American countries except Belize & Honduras plus Ecuador. At 0004, he broke into an a cappella hymn. Got excited at times; "El Se0or ay'dame...ay'dame Se0or". SI0=253- at best (Harold Frodge, M.A.R.E. DXpedition, Brighton MI, Drake R8B + 500' NEish unterminated bev + 85' TTFD, All logged by my ears, on my receiver, in real time! DX LISTENING DIGEST)

\*\* NIGERIA. Re Valko, 13-50, 7254.94: Thanks a lot, Dave, for this report of an otherwise rarely reported activity. Tried to catch it in Europe, but at best we can expect a faint hum as the signal interferes with the always very strong signals on 7255. Easily found Dec. 10 from 1853 to about 2000. Tried to nailcdwn s/on (around 1830 as DRM on 15120 would be my guess), but no luck on 11+12th. But quite exactly the same odd frequency can be heard from 0728 to 0758. Too weak to ID the last two days, but most certainly the same transmitter. 73 (Thorsten Hallmann, Germany, Dec 13, DX LISTENING DIGEST)

15120, V. of Nigeria:

Dec 13 0721-0731, 35333, French, Talk, ID at 0722.

Dec 14 0658-0708, 35333-35433, English and French, Closing announce at 0658, IS from 0659, Opening announce, News (Kouji Hashimoto, JAPAN, RX, IC-R75, NRD-525+RD-9830, NRD-515, NRD-345, Satellite 750, DE-1121, ANT, 70m Sloper Wire, DX LISTENING DIGEST)

\*\* NIGERIA [non]. GERMANY (non), Media Broadcast changes:

Hamada Radio International back on the air with very strong signal in Sofia, 0530-0600 on 7350 NAU 100 kW / 180 deg to WeAs Hausa Mon-Fri (broker WRMI) (Ivo Ivanov, DX RE MIX NEWS #828 December 18, 2013 via WORLD OF RADIO 1700, DXLD)

\*\* NORTH AMERICA. 3245, R/S YHWH, 0221+ 14 Dec. Just when I thought it was safe to troll through 90M, these guys show up with the usual religious declamations; not a great signal, but since I've heard this tape a bunch of times, it was perfectly readable (understandable, not so much) (Dan Sheedy, Encinitas, CA, PL380/ 6m X wire, DX LISTENING DIGEST)

\*\* NORTH AMERICA. 6935-USB, Dec 15 at 0135, very good signal still with RF gain on the DX-398 all the way down (tho with external antenna), torch singer, ``What Can a Woman Do?``, seguÉ 0136 ``Just Like a Woman``; 0146 recheck yet another ``woman`` song, 0149 quick ID I thought said ``Ronin Radio``, then ``Pretty Woman``.

But I must defer to numerous other loggers of this feminine streak at <http://www.hfunderground.com/board/index.php/topic,14366.0.html> who say it's Wolverine Radio. I think they have done this before. No other pirates audible. This one still going at 0210 (Glenn Hauser, OK,

## DX LISTENING DIGEST)

\*\* NORWAY. Radio Northern Star via LKB/LLE

This was observed at 0735 UT on 11 Dec on 5895 kHz, with fair to poor reception via Global Tuners rx in Dokkum, Netherlands. Test transmission loop with many 60s offshore pirate radio jingles customised for Radio Northern Star interspersed with announcements in English and Norwegian, typically: "This is a test transmission from Radio Northern Star, on AM 1314, 228 metres medium wave, and AM 5895, 49 metres shortwave". Nothing was traced on 1314 kHz here.

A clip of this can be heard on the Interval Signals Online website - <http://intervalsignals.net>  
(David Kernick, Interval Signals Online, Dec 12, dxldyg via DX LISTENING DIGEST)

Svenn Martinsen posted in the Medium Wave Circle Facebook group December 17, 2013: It's almost over for the Norwegian temporary license, but LKB/LLE is on the air with new test transmissions today, tomorrow and Thursday from LLE-2 (1314 kHz) and LLE-3 (5895 kHz). Morning broadcasts Tuesday and Wednesday are 0530-0800 UTC, and we also plan an afternoon transmission Thursday afternoon, 1400-1600 UTC. There have been many reports, but we'd like more! QSL card for correct reports. Remember to enclose Norwegian stamps or 3\$. Address: Box 100, 5331 RONG. Address: Box 100, 5331 RONG (via Mike Terry, Dec 17, dxldyg via WORLD OF RADIO 1700, DX LISTENING DIGEST)

From Sven Martinsen, Arctic Radio Club:

Final test transmissions from Bergen Kringkaster LKB/LLE

It's almost over for the Norwegian temporary license, but LKB/LLE is on the air with new test transmissions today [Tues], tomorrow [Wed] and Thursday from LLE-2 (1314 kHz) and LLE-3 (5895 kHz). Morning broadcasts Tuesday and Wednesday are 0530-0800 UT, and we also plan an afternoon transmission Thursday afternoon, 1400-1600 UT. There have been many reports, but we'd like more! QSL card for correct reports. Remember to enclose Norwegian stamps or 3\$. Address: Box 100, 5331 RONG. (Svenn Martinsen, ARC)

<http://arcticradioclub.blogspot.co.uk/2013/12/final-test-transmissions-from-bergen.html>  
(via Alan Pennington, Dec 18, BDXC-UK yg via DXLD)

I checked 5895 this morning nothing heard. Sent from my iPhone (David Thorpe, 1338 UT Dec 18, BDXC-UK yg via DXLD)

\*\* OKLAHOMA. 530, Dec 17 circa 2105 UT, ``K530AM``, Vance AFB is finally back on the air with the usual PSA loops, such as booster seats, gate hours info, and seems stronger than before it crashed on Black Friday. Hope I can still get a good null on it for Enciclopedia, CUBA at night, not including of course on the caradio: there it's mixing with Cuba's music, fast SAH (Glenn Hauser, Enid, DX LISTENING DIGEST)

\*\* OKLAHOMA. CHANGES TO EXISTING STATIONS: CP granted: 970, KCFO, Tulsa ñ Granted CP to modify day pattern, from 6 towers to 2 (AM Switch, NRC DX News Dec 16 via DXLD)

\*\* OKLAHOMA. 1050, KXCA, Lawton ñ Format to SPT (ex-UC:AC), slogan to iThe Ticket,i net to ESPN.  
1380, KKRX, Lawton ñ Format to UC:AC (ex-SPT), slogan i1380 The Touch,i net to CM (AM Switch, NRC DX News Dec 9 via DXLD) i.e. swap

\*\* OKLAHOMA [non]. 1210, Dec 17 at 0645 UT, `Coast to Coast AM` // but not synchro with 1200 WOAI. I've been meaning to point out that for some weeks now, KGYN Guymon OK has not been heard at night, meaning that they have axually been running night pattern with null toward Philadelphia, Enid, and/or reduced power. The C2CAM must be WPHT, as listed in NRC AM Log 2013, once you check the format key and find that entered as ``B`` (Glenn Hauser, OK, DX LISTENING DIGEST)

\*\* OKLAHOMA. CHANGES TO EXISTING STATIONS:  
1340, KJMU, Sand Springs ñ Silent since 12/2/2012, back on the air with CP facilities 11/29 (AM Switch, NRC DX News Dec 16 via DXLD) Did it stay on, or merely for a few hours to retain license? (gh, DXLD)

1340 KJMU Sand Springs, OK was silent, now new unknown format  
(BROADCASTING INFORMATION, Robert J. Wien (KG6RJW/3) - DATE OF COLUMN: DECEMBER 14, 2013, Column data span: November 30, 2013-December 14, 2013, Data courtesy of Stationintel.com, FCC database and member contributions, IRCA DX Monitor Dec 21 via DXLD)

\*\* OKLAHOMA. 1350, KTLQ, Tahlequah ñ Adds // K242CK-96.3 (AM Switch, NRC DX News Dec 23 via DXLD)

\*\* OKLAHOMA.  
1530 KXTD Wagoner, OK old slogan: iLa Luz AM 1530i, new: iQuÈ Buenaî  
1530 KXTD Wagoner, OK was Spanish Christian, now Regional Mexican  
1570 KZLI Catoosa, OK old slogan: iMega 1570i, new: iLa Luz 1570i  
1570 KZLI Catoosa, OK was Spanish  
(BROADCASTING INFORMATION, Robert J. Wien (KG6RJW/3) - DATE OF COLUMN: DECEMBER 14, 2013, Column data span: November 30, 2013-December 14, 2013, Data courtesy of Stationintel.com, FCC database and member contributions, IRCA DX Monitor Dec 21 via DXLD)



1530, KXTD, Wagoner ñ Format to SS:MEX (ex-SS:SPT), slogan to iQue Buena, ñ drop network ESPD; delete // KZLI-1570. 1570, KZLI, Catoosa ñ Delete // KXTD-1530 (AM Switch, NRC DX News Dec 23 via DXLD)

\*\* OKLAHOMA [and non]. Some recent updates to the list of frequency variations that can be found at Gunter Lorenzís  
<http://www.myradiobase.de/mediumwave/mwoffset.txt>  
1639.9955, KZLS, Enid, Peer-Axel Kroeske 17/3  
1640.1222, WKSH, Sussex, Barry McLarnon 23/5  
(Recent posts to MW Offset List via Nov-Dec NZ DX Times via DXLD)

Not very recent, from March & May? and there was no KZLS on 1640 until October, but maybe the offsets still apply: So KZLS would make a 4.5 Hz SAH with any station on 1640.0000 exactly; and a hefty 126.7 Hz audible het with Sussex; is that correct? (Glenn Hauser, Enid, DX LISTENING DIGEST)

1640, KZLS, Enid; 2223-2238+, 9-Dec; "Your fun-loving true oldies channel". No mention of Glenn Hauser heard. Poor with occasional peak over mainly PA TIS station. No sign of lately dominant WTNI till 2238. OK #13 (Harold Frodge, Midland MI, USA, Drake R8B + 125 ft. bow-tie; 85 ft. RW & 180 ft. center-fed RW, All logged by my ears, on my receiver, in real time! DX LISTENING DIGEST)

\*\* OKLAHOMA. I hadn't checked off-the-air antenna reception of KETA 13, for a while, as it tends to suffer from dropouts, but early UT Dec 16, I tuned across ch 13 and found that OETA had added two more subchannels! Create on 13-3 and PBS Kids on 13-4. These two had previously only been available on some cable systems, i.e. OKC, and not Enid. OETA had previously told me that putting them on the air would degrade the HD quality too much of their main channel. I don't yet know whether all four are now on all OETA transmitters full-power and low-power translators around the state, but if so, I would hope they put the kidvid channel to better use, since large blocks on 13-1 and 13-2 are devoted to kidvid daily, and another 100% kidvid channel is a bit much.

I've suggested they put CLASSIC ARTS on it, which the current OETA Executive Director is well familiar with, having run it on his previous station, KRSC-TV in Claremore, an educational but not OETA affiliate. OETA website is being rebuilt, making it hard (impossible?) to find schedules for Create, now that I can get it! Create has schedule on its own website, cooking and various how-to, travel shows. I've found it too of little interest, mostly reruns of programs already seen on OETA if I wanted to. It also comes across as almost an infomercial channel, as everybody is pushing DVDs and other stuff. Is it a money-maker for PBS stations carrying it? Many others do, as

close as Wichita (Glenn Hauser, OK, DX LISTENING DIGEST)

\*\* OMAN. 15140, Dec 17 at 1411, open carrier/dead air and some hum, instead of English hour from R. Sultanate of Oman; and cut off the air around 1414, still off at 1445. Meanwhile, Ivo Ivanov was hearing it on 15355 instead this hour; mistake? (Glenn Hauser, OK, DX LISTENING DIGEST)

Frequency change (or wrong frequency) of R Sultanate of Oman:  
1400-1500 NF 15355 THU 100 kW / 315 deg WeEu English, ex 15140 Dec 17  
1500-2200 NF 15355 THU 100 kW / 315 deg WeEu Arabic, ex 15140 Dec 17  
(Ivo Ivanov, DX RE MIX NEWS #827 December 17, 2013 via DXLD)

15140, Dec 18 at 1406, R. Sultanate of Oman is back on normal frequency for the English hour, rock music, fair signal, after having been unmodulated and turned off yesterday, apparently replaced by 15355 as per Ivo. It would be a bit premature to declare a ``new frequency``, based on one day's mixup. 1436 recheck, YL in news about explosions in Pakistan (Glenn Hauser, OK, DX LISTENING DIGEST)

\*\* PAKISTAN. 15725, R Pakistan, Islamabad, 14/12, 1344 Urdu. Music, fast beat. S9+ heavy QSB. 73 (Nick VK2DX [Sydney] Hacko, NSW, dxldyg via DX LISTENING DIGEST)

\*\* PALESTINE [non]. 7220, IRAN. Voice of Palestine ñ Kamalabad, 0335-0417\* Dec 7, much Arabic language talks, music and group discussions until carrier cut at 0417 ending transmission. Poor to fair (Richard A. DiAngelo, Wyomissing, PA 19610 U.S.A, Dec 17, Ten-Tec RX-340, Drake R-8B, Eton E1, Eton E5, Alpha Delta DX Sloper, RF Systems Mini-Windom, Datong FL3, JPS ANC-4, via Craig Seager, ARDXC via DXLD)

\*\* PERU. CHASQUI DX PFA ñ DICIEMBRE --- CQ, CQ, CQ; Aquì Pedro F. Arrun-tegui para compartir algo con los que disfrutan y aman el DX latinoamericano; todas las horas son UT. Desde la tierra de los incas, les informo mediante este Quipus lo siguiente:

679.94, PER/, R. Onda Digital, Lima, 4/12 0615-0645, 44444, mx moderna en espa0ol e inglÈs, ID "Usted [est.] escuchando una emisora de Onda, grupo de medios, desde Limaì mx, ID "Onda Digital" mx varias, ID iOnda grupo de medios, las emisoras con la programaciÙn, la emisora con la programaciÙn que usted prefriereì, mx, ID iOnda Digital, emisora del grupo Onda" NOTA: Hay intervalos de silencio entre mx, tocan mx en forma continua sin advs. <http://www.onda-digital.net/>

3329.54, PER/, R. Ondas del Huallaga, Hu·nuco, 9/12 1105-1135, 33333+, px aquì en Hu·nuco, Rosaura y su estrellas desde Bolivia llega con los poderes de la viuda negra (curanderismo). ID "Ondas del Huallaga, informativa, deportiva", advs Frente `nico regional de Hu·nuco convoca

a la reuni n sobre el corte de fluido el ctrico en la ciudad. Campa a contra la violencia familia[r] por el gobierno regional de Hu nuco, Agro Falc n lo mejor para su campo.

4747.05, PER/, R. Huanta 2000, Huari, 5/12 2335-0005, 33333, mxf, huayno px en quechua, advs, ID iRadio Huanta 2000i, advs en espa ol, Cooperativa de Ahorro y Cr dito se or de Mayahay, Universidad Nacional de Huancavelica, ID iRadio Huanta 2000i en Radio Huanta 2000 invita el alcalde de Huanta

4789.87, PER/, R. Visi n, Chiclayo, 4/12 2320-2345, 33333, mx pasillos, ID "Radio Visi n una grande para todos", mx, ID "Radio Visi n, desde la ciudad de Chiclayo, Per " ID iTransmite Radio Visi n, una radio para todo el mundo"

4835.00, PER/, R. Ondas del Sur Oriente; Quillabamba, 2/12 1125-1200, 33333, mxf, px en quechua y espa ol advs, mxf Natacha, ID "Por Radio de Sur Oriente", advs Consejo de la Convenci n", Ejercito del Per  pres ntate al servicio en el cuartel  Este nuestro compromiso Conservar la Naturaleza, Proyecto Camisea.

4985.50, PER/, R. Voz Cristiana, Chilca, 13/12 1115-1150, 33333, ID "Radio Voz Cristiana le acompa a a salvarse", mx, ID "Radio Voz Cristiana te bendiga en tu siembra; con tu ayuda Radio Voz Cristiana est  saliendo adelante en esta gran siembra", px Siembra Misionera por las ondas de Radio Voz Cristiana

5024.92, PER/, R. Quillabamba, Quillabamba, 15/12 1050-1120, 44444, px sobre la aparici n de la Virgen de Guadalupe, mx, ID "Por Radio Quillabamba", ID iInvitamos a nuestros amigos a escucharnos en 1210 OM que ya estamos saliendo al aire " NOTA: Ellos est n anunciando que ya est n saliendo en los 1210 kHz. (Escuchar grabaci n).

5980.00, PER/, R. Chasqui [sic], Cusco, 9/12 2310-2340, 44444++, px El Camino de la Vida (religioso), mx, ID iRadio Chaski, en la regi n Cusco en cadena con la Red Radio Integridad , mx

6173.90, PER/, R. Tawuantinsuyo, Cusco, 9/12 1140-1215, 44444+, advs, ID "En Radio Tawuantinsuyo " news varias en espa ol y quechua, advs Escuelas de Oratoria el Ateneo, px Informativo Tupac Amaru.

NOTA: A todos los compa eros y amigos diexista les deseo tengan una FELIZ NAVIDAD y un PROSPERO A O NUEVO 2014, en uni n de la familia.

La recepci n la he efectuado del 28/11 al 17/12 en compa  a de mi sabueso Icom IC R72 acompa ado del Mizuho KX-3, una antena de hilo largo de 12 metros y una antena loop. Vivo en una casa muy peque a, pero, sus ventanas se abren hacia un mundo muy grande. Muchos 128 s

PFA (Pedro F. Arruntegui, Lima, DX LISTENING DIGEST)

\*\* PERU. 4955, R. CULTURAL AMAUTA, 17/12 0111 UT. Programa donde comentan los resultados de la elecci n de Michelle Bachelet como presidenta de Chile por segunda vez, junto a otras noticias sobre Chile, y m sica cristiana contempor nea. I.e: Marcos Vidal, et al. SINPO: 54454 (Claudio Galaz, Antena: Hilo de 5 metros de cable de cobre, RX: Tecsun PL-660, QTH: Poblado de Barraza Bajo, Comuna de Ovalle, IV Regi n, Chile, condiglista yg via DXLD)

\*\* PERU [non]. 5980, Dec 12 at 0053, presumed Tibetan, very poor signal from VOA Sri Lanka; recheck at 0103.5 expecting remnant of R. Chaski before its expected cutoff approaching 0105, but nothing there (Glenn Hauser, OK, DX LISTENING DIGEST)

5980, R. CHASKI, 13/12 0013 UT. Se escucha una voz con algo de sobremodulaci n, pero con mucho ruido de VOA/CNR-1 JAMMER, el que va disminuyendo al pasar de la hora. A las 0024 UT, se escuchan avisos radiales con sobremodulaci n y m sica instrumental con SINPO: 43333 (Claudio Galaz, Antena: Hilo de 5 metros de cable de cobre, RX: Tecsun PL-660, QTH: Poblado de Barraza Bajo, Comuna de Ovalle, IV Regi n, Chile, condiglista yg via DXLD)

[and non]. 5980, Dec 14 at 0055, presumed Tibetan dominant but very poor from VOA SRI LANKA. Circa 0058:45 the signal strength diminishes slightly as it presumably goes off; no CNR1 jammer timesignal audible at 0100, but a carrier remains which now must be R. Chaski, and it cuts off at 0101:48, so their autotimer has been reset again, but not all the way back to 0100 or 0059.

5980, Dec 17 at 0058, heavy pulse jamming from Cuba, as happens nonsensically periodically, far outside the hours that R. Mart  ever uses 5980; but I can still detect a carrier amid it, and it's R. Chaski since it cuts off at 0102:02.5\*, which is 14.5 seconds later than when last observed 72 hours earlier (Glenn Hauser, OK, WORLD OF RADIO 1700, DX LISTENING DIGEST)

5980, R. CHASKI, 17/12 0020 UT. Programa iGracia a Vosotros  con el pastor MacArthur en espa ol con el tema de la predestinaci n y el cargar la cruz con referencias a la cultura de la  poca en que se escribi  la Biblia, frente a interpretaciones erradas en el d a de hoy, hasta las 0035 UT. Desde aquella hora en adelante se da m sica instrumental e himnos cl sicos en espa ol, la emisora da la hora y se identifica como: iDesde el valle sagrado de los incas, transmite Radio Chaski  sonando el himno: iOh cant dmela otra vez, dulces palabras de vida  de manera instrumental a las 0045, pasa a tocar himnos. i.e.: iOh tu fidelidad , iEn el monte calvario  y m sica cristiana folkl rica de influencia serrana.

¿Chaski transmitiendo su propia programación? Al parecer es así, ya que no coincide con la programación de R. Radio Integridad en su página web. Su salida del aire fue a las 0102 aprox. Señal con SINPO: 53453 y sin mayor sobremodulación, aunque con algunos picos de interferencia de la mixtura de CNR-1 JAMMER/VOA, aunque muy poco determinante.

5980, R. CHASKI, 17/12 2245 UT. Predicación de un pastor acerca de la economía de la gracia de Dios en Cristo, como retransmisión de Red Radio Integridad con SINPO: 55454 (Claudio Galaz, Antena: Hilo de 5 metros de cable de cobre, RX: Tecsun PL-660, QTH: Poblado de Barraza Bajo, Comuna de Ovalle, IV Región, Chile, condiglista yg via DXLD)

\*\* PHILIPPINES. Winter [sic] B-13 SW schedule of FEBC Manila:

0000-0015	on	9795	IBA	100	kW	/	270	deg	to	SEAs	Khmu
0000-0030	on	9405	BOC	100	kW	/	345	deg	to	EaAs	Chinese
0000-0100	on	12055	BOC	100	kW	/	305	deg	to	SEAs	Lahu/Wa
0000-0100	on	12070	IBA	100	kW	/	330	deg	to	EaAs	Chinese
0000-0100	on	15600	BOC	100	kW	/	293	deg	to	SEAs	Chin-Asho/Khumi-Karen
0000-0130	on	15435	BOC	100	kW	/	305	deg	to	EaAs	Shan/Tai-Lu/Maitai/ Chin
0100-0130	on	15560	BOC	100	kW	/	200	deg	to	SEAs	Javanese
0800-0830	on	15320	BOC	100	kW	/	200	deg	to	SEAs	Madurese Mon-Wed
0800-0830	on	15320	BOC	100	kW	/	185	deg	to	SEAs	Sasak Thu-Sun
0800-0900	on	15525	BOC	100	kW	/	345	deg	to	EaAs	Chinese
0830-0900	on	15450	IBA	100	kW	/	330	deg	to	EaAs	Hu/Mongolian
0900-1000	on	15580	BOC	100	kW	/	185	deg	to	SEAs	Makassarese/Buginese
0930-1000	on	15450	BOC	100	kW	/	245	deg	to	SEAs	Minangkabau
0900-1400	on	9400	IBA	100	kW	/	330	deg	to	EaAs	Chinese
0900-1600	on	9430	BOC	100	kW	/	345	deg	to	EaAs	Chinese
1000-1030	on	15640	BOC	100	kW	/	308	deg	to	SEAs	Southern Bai
1030-1100	on	12095	BOC	100	kW	/	293	deg	to	SEAs	Tai-Lu
1000-1100	on	15580	BOC	100	kW	/	215	deg	to	SEAs	Sunda/Sasak
1100-1200	on	9795	IBA	100	kW	/	270	deg	to	SEAs	Vietnamese
1100-1200	on	9855	BOC	100	kW	/	280	deg	to	SEAs	Vietnamese
1100-1300	on	12095	BOC	100	kW	/	305	deg	to	SEAs	Hmong/Lao/Njua/Mien
1115-1200	on	15330	BOC	100	kW	/	278	deg	to	SEAs	Karen/Mon/Jingpho
1200-1300	on	7410	BOC	100	kW	/	280	deg	to	SEAs	Khmer
1200-1330	on	9920	IBA	100	kW	/	270	deg	to	SEAs	Rade/Jarai/Roglai/ Sedang/Koho
1200-1400	on	12020	BOC	100	kW	/	293	deg	to	SEAs	Rawang/Akha/Naga/Chin- Daai
1300-1330	on	11825	BOC	100	kW	/	305	deg	to	CeAs	Tibetan
1300-1400	on	12095	BOC	100	kW	/	280	deg	to	SEAs	Hmong/Khmu
1330-1400	on	9465	BOC	100	kW	/	305	deg	to	CeAs	Chinese-Yunnan
1400-1430	on	11750	BOC	100	kW	/	305	deg	to	SEAs	Lahu
1400-1430	on	15620	BOC	100	kW	/	200	deg	to	SEAs	Javanese

1400-1600 on 9345 IBA 100 kW / 330 deg to EaAs Chinese  
 1430-1500 on 9940 BOC 100 kW / 323 deg to CeAs Uyghur  
 1500-1600 on 9465 BOC 100 kW / 323 deg to CeAs Russian Mon-Sat  
 1500-1600 on 9465 BOC 100 kW / 323 deg to CeAs Russian/Ukrainan Sun  
 2230-2400 on 9405 BOC 100 kW / 345 deg to EaAs Chinese  
 2300-2330 on 9365 BOC 100 kW / 280 deg to SEAs Iu Mien  
 2300-2330 on 12095 BOC 100 kW / 293 deg to SEAs Hmong(9545)  
 2300-2400 on 9795 BOC 100 kW / 270 deg to SEAs Mon/Lao  
 2300-2400 on 12070 IBA 100 kW / 330 deg to EaAs Chinese  
 2330-2400 on 12055 BOC 100 kW / 305 deg to SEAs Palaung/Pale/Tai-Lu  
 2330-2400 on 15600 BOC 100 kW / 293 deg to SEAs Burmese  
 (Ivo Ivanov, DX RE MIX NEWS #827 December 17, 2013 via DXLD)

9430, QSL, FEBC Radio International verified an electronic report with an electronic reply including a full data card image, letter and program schedule in 1 day from v/s Norita P. Estabillo, Shortwave Operation, Program Support Supervisor. Norita indicated that she was forwarding my reception report to Ms. Lyn De Guzman, the Head of the Corporate Communication and Resource Development, who will be the one to send another response to me (Rich D'Angelo-PA-USA, DXplorer Dec 8 via BCDX Dec 13 via DXLD)

\*\* PHILIPPINES. B-13 of R. Pilipinas Philippines Broadcasting Service:  
 0200-0330 on 15640 PHT 250 kW / 283 deg to N&ME Tagalog/English  
 0200-0330 on 17700 PHT 250 kW / 283 deg to N&ME Tagalog/English  
 0200-0330 on 17820 PHT 250 kW / 270 deg to N&ME Tagalog/English  
 1730-1930 on 9825 PHT 250 kW / 283 deg to N&ME English/Tagalog  
 1730-1930 on 11890 PHT 250 kW / 283 deg to N&ME English/Tagalog  
 1730-1930 on 15190 PHT 250 kW / 283 deg to N&ME English/Tagalog  
 (Ivo Ivanov, DX RE MIX NEWS #827 December 17, 2013 via DXLD)

15190, Radio Pilipinas/Voice of the Philippines; 1835-1842+, 14-Dec; Lengthy ID promo, RP/VoP IDs at tune-in in Tagalog/English; mostly in TG. SIO=253- (Harold Frodge, M.A.R.E. DXpedition, Brighton MI, Drake R8B + 500' NEish unterminated bev + 85' TTFD, All logged by my ears, on my receiver, in real time! DX LISTENING DIGEST)

\*\* PHILIPPINES. Winter [sic] B-13 SW schedule of Radio Veritas Asia  
 0000-0027 on 11855 PUG 250 kW / 280 deg to SoAs Sinhala  
 0000-0027 on 11935 PUG 250 kW / 280 deg to SEAs Karen  
 0000-0027 on 15460 PUG 250 kW / 280 deg to SoAs Sinhala  
 0030-0057 on 11855 PUG 250 kW / 280 deg to SoAs Tamil  
 0030-0057 on 15265 PUG 250 kW / 300 deg to SoAs Bengali  
 0030-0057 on 15280 PUG 250 kW / 280 deg to SoAs Hindi  
 0100-0127 on 15280 PUG 250 kW / 300 deg to SoAs Urdu  
 0100-0127 on 15530 PUG 250 kW / 280 deg to SoAs Telugu  
 0100-0127 on 17860 PUG 250 kW / 300 deg to SoAs Urdu  
 0130-0157 on 15255 PUG 250 kW / 280 deg to SEAs Zomi-Chin

0130-0227 on 15530 PUG 250 kW / 280 deg to SEAs Vietnamese  
 1000-1027 on 11850 PUG 250 kW / 280 deg to SEAs Khmer  
 1000-1157 on 11945 PUG 250 kW / 000 deg to EaAs Mandarin  
 1030-1127 on 11850 PUG 250 kW / 280 deg to SEAs Vietnamese  
 1130-1157 on 15450 PUG 250 kW / 280 deg to SEAs Burmese  
 1200-1227 on 11935 PUG 250 kW / 280 deg to SEAs Hmong  
 1200-1227 on 15225 PUG 250 kW / 280 deg to SEAs Karen  
 1230-1257 on 15225 PUG 250 kW / 280 deg to SEAs Kachin  
 1300-1327 on 11850 PUG 250 kW / 280 deg to SEAs Vietnamese  
 1330-1357 on 9520 PUG 250 kW / 280 deg to SoAs Sinhala  
 1330-1357 on 11870 PUG 250 kW / 300 deg to SoAs Hindi  
 1400-1427 on 9520 PUG 250 kW / 280 deg to SoAs Tamil  
 1400-1427 on 11870 PUG 250 kW / 300 deg to SoAs Bengali  
 1430-1457 on 11750 PUG 250 kW / 280 deg to SoAs Telugu  
 1430-1457 on 11870 PUG 250 kW / 280 deg to SEAs Zomi-Chin  
 1430-1457 on 15330 SMG 250 kW / 089 deg to SoAs Urdu  
 1500-1557 on 15320 SMG 250 kW / 107 deg to N/ME Tagalog, registered  
 1630-1657  
 2100-2257 on 6115 PUG 250 kW / 350 deg to EaAs Mandarin  
 2300-2327 on 15355 PUG 250 kW / 000 deg to CeAs Tagalog  
 2330-2357 on 9645 PUG 250 kW / 280 deg to SEAs Kachin  
 2330-2357 on 9670 PUG 250 kW / 280 deg to SEAs Vietnamese  
 2330-2357 on 9720 PUG 250 kW / 280 deg to SEAs Burmese  
 (Ivo Ivanov, DX RE MIX NEWS #827 December 17, 2013 via DXLD)

\*\* ROMANIA [and non]. 41 mb Three bad station signal mixtures noted at  
 01-02 UT slot.

ROMANIA/UAE, 7325.0 At 0120 UT even RRI Bucharest in English, and odd  
 7325.052 kHz frequency BBC Hindi sce 0100-0130 from Al Dhabbaya-UAE.  
 (wb, wwdxc BC-DX TopNews Dec 15)

ROMANIA/INDIA, 7340.0, RRI Bucharest in Romanian heard on bad mixture  
 with stronger AIR Urdu service at S=9+20dB level, Indian male singer  
 at 0125 UT, latter on odd 7340.094 kHz of course. Rather 100 Hertz  
 interference BUZZ tone heard (Wolfgang B.schel, wwdxc BC-DX TopNews  
 Dec 15, dxldyg via DXLD)

\*\* ROMANIA. Additional broadcasts of NEXUS-IBA IRRS SW from Radiocom:  
 Radio Santec Cosmic Wave (probably), not Oromo Voice in Oromo on  
 Mon/Wed/Sat  
 1500-1530 on 15515 TIG 150 kW / 165 deg CEAF Somali Fri, added Dec. 16  
 1500-1530 on 15515 TIG 150 kW / 175 deg EaAf Oromo Sat, added Dec. 16  
 And again no transmissions of Oromo Voice on Monday, December 16:  
 1600-1630 on 17850 ISS 250 kW / 130 deg to EaAf Oromo Mon/Wed/Sat  
 (Ivo Ivanov, DX RE MIX NEWS #826 December 16, 2013, via WORLD OF RADIO  
 1700, DXLD)

\*\* RUSSIA. 5930, R. Rossii-Kamchatka, Dec 10 0710-0716, 45343, Russian, Opening music, ID, Opening announce, Talk, Local program from 0710 (Kouji Hashimoto, JAPAN, RX, IC-R75, NRD-525+RD-9830, NRD-515, NRD-345, Satellite 750, DE-1121, ANT, 70m Sloper Wire, DX LISTENING DIGEST)

\*\* RUSSIA. 5930.000, Just heard the old-new National Hymn of former USSR, now Russia with a new text-exSowjetunion, played rather long duration from 0155 to end at exact 0200:04 UT Dec 15, followed by few time pips. The latest pip was 13 seconds TOO LATE, compared with DCF77 German time signal.

<http://en.wikipedia.org/wiki/DCF77>

(Wolfgang B. schel, wwdxc BC-DX TopNews Dec 15, dxldyg via DXLD) This one Monchegorsk, I assume; I thought it signed on at 0100 (gh, DXLD)

5930.00, 1525-1535 15.12, R Rossii, Monchegorsk, Russian talk, 1533 martial music, ann, ID 45344 // 6160

6160.00, 1510-1540 15.12, R Rossii, Arkhangelsk, Russian talk // 5930, 32332, sideband QRM (Anker Petersen, on my AOR AR7030PLUS with 28 metres of longwire in Skovlunde, Denmark, via Dario Monferini, playdx yg via DXLD)

\*\* RUSSIA. 7320, Dec 14 at 0340, sufficient S9+18 signal, but very undermodulated in Russian, as R. Rossii, Magadan is already propagating in the dead of winter. Sunset is 0454 UT after a 6-hour day at 60 degrees north. Some reports indicate that not only VOR but also R. Rossii will be going off SW January 1. See the confusing story via DXLD 13-49 which mixes up the different broadcasting bands (Glenn Hauser, OK, DX LISTENING DIGEST)

\*\* RUSSIA [and non]. 12055, Dec 12 at 1322, poor signal in Russian, so Golos Rossii still exists here as scheduled 12-16, 250 kW, 117 degrees from a Moskva site. Heavy QRM not only from WEWN on 12050 in Spanish, but worse from the squealing parasitic spur always accompanying it around 12054 (Glenn Hauser, OK, DX LISTENING DIGEST)

A bad radio station from Moscow posted these photos from what Deutsche Presse-Agentur called "moving celebrations":

<https://www.facebook.com/StimmeRusslands/posts/718548424823388>

Meanwhile indeed no one in Moscow seems to care for this radio station at all. There are only reports such as this, about a commission for the liquidation of RIA Novosti, led by Karl-Eduard von Schnitzler --- oops, by Dmitri Kiselyov:

[http://www.onair.ru/main/enews/view\\_msg/NMID\\_\\_47198/](http://www.onair.ru/main/enews/view_msg/NMID__47198/)

(Kai Ludwig, Dec 12, dxldyg via DX LISTENING DIGEST)



\*\* RUSSIA. VOICE OF RUSSIA --- International Agency "Russia Today" is created on the basis of RIA Novosti (updated: 12.09.2013 12:34)

Vladimir Putin has signed a decree on the reorganization of RIA Novosti news agency. At its base is created agency "Russia Today", which will be headed by Dmitry Kiselev. In the new agency will also include State Broadcasting Company "Voice of Russia" ...

<http://ria.ru/society/20131209/982905485.html>

(via Andrew, Tomsk, Russia / "deneb-radio-dx", via RusDX 15 Dec via DXLD)

Voice of Russia liquidate. item 5

<http://kremlin.ru/acts/19805>

(Aleksandr Diadischev, Ukraine / "open\_dx" & "deneb-radio-dx", ibid.)

Decree on measures to improve the efficiency of state-owned media  
December 9, 2013.

Vladimir Putin signed a decree "On some measures to improve the efficiency of state-owned media." Full text of the Decree:

In order to improve the efficiency of the public media decree: ...

5. Eliminate Federal State Institution "Russian State Radio Company "Voice of Russia "(Moscow) with subsequent transfer assigned to it on the operational management of the property in the economic management of the Federal State Unitary Enterprise " International News Agency "Russia Today."

<http://kremlin.ru/acts/19805>

(via Editor Anatoly Klepov, ibid.)

Eliminate the "Voice of Russia" as a legal entity, a station may not greatly affect. Perhaps a change in name - yes already in some languages declared in the Voice of Russia, and Radio VR.

Of claim 3 and further decree that it's just working on the centralization of foreign media that they were carrying the party and government policies consistently, and not in his own way (Dmitry Mezin, Kazan, Russia / "open\_dx" via RusDX 15 Dec via DXLD)

Unscheduled DRM transmission of Voice of Russia in English on 7400 kHz, 1200 UT onwards, or there's change in schedule? --- (Alokesh Gupta, New Delhi, 1253 UT Dec 15, cumbre\_dx via DXLD)

Re: [dxld] Voice of Russia to halt shortwave broadcasts

A couple of frequencies have been added to HFCC for VOR in English and Vietnamese which are due to start on the 1st of January 2014. So either VoR are continue after 1st January or they really don't know

what's happening yet.

<http://www.hfcc.org/data/schedbyfmo.php?seas=B13&fmo=GFC>

(Stephen Cooper, Dec 13, dxldyg via DX LISTENING DIGEST)

Frequency change of Voice of Russia:

1000-1400 NF 9560 IRK 250 kW / 180 deg to EaAs Chinese, ex 7305

Cancelled frequencies of Voice of Russia via Novosibirsk from Dec. 18:

0600-1000 on 21820 NVS 500 kW / 155 deg to AUS English

0700-0900 on 21840 NVS 250 kW / 180 deg to SEAs English

1000-1200 on 11935 NVS 250 kW / 120 deg to EaAs Chinese

1100-1500 on 9560 NVS 250 kW / 145 deg to EaAs English

1600-1800 on 5955 NVS 250 kW / 180 deg to SoAs English

1600-1900 on 6110 NVS 250 kW / 240 deg to CeAs Russian

1600-1800 on 6180 NVS 250 kW / 145 deg to CeAs English (Ivo Ivanov,

DX RE MIX NEWS #828 December 18, 2013 via WORLD OF RADIO 1700, DXLD)

Re: [dxld] The Voice of Russia is Over? An employee of Oyash tx site (which is actually located near Raduga village, Novosibirsk region) writes on dxing.ru that the Voice of Russia has today cancelled transmissions on 6110, 6180, 9560, 11935, 21820 and 21840 kHz (a total of 16 hours), so maybe similar reductions have been made at other sites (Aleksandr Diadishev, Ukraine, Dec 17, dxldyg via WORLD OF RADIO 1700, DX LISTENING DIGEST)

From a post I saw on Facebook <http://pastebin.com/vqSUTfvU> GFC A14 schedule about 30 less registrations than B13. Some VOR registrations are not included and are registered separately if transmitter is outside Russia e.g. Armenia etc. (Stephen Cooper, ibid.) 30% or 30?

I was able to log the Voice of Russia last night and wrote out a reception report to mail via snail mail to them in hopes of receiving a physical QSL back. That got me thinking in regards to recent news I have seen regarding Putin and restructuring of VOR. As the link on their website was not functioning and my 2008 edition of Passport is dated, does anyone know a viable postal address for them and do you have any opinions on the likelihood of them actually responding via postal mail? Best regards (chris, col, ohio Dec 18, ptsw yg via DXLD)

VOR Website has the postal address, in case you have not seen it.

<http://voiceofrussia.com/contacts/>

\*Regards\* (\*Sudhindra\*, ibid.)

Viz., it's the same street address they've been at forever, and note the strange postal info; so is there now international business-reply mail, at least from anywhere to Russia?? (gh, DXLD)

CONTACT US:

25, Pyatnitskaya St., Moscow, 115326, Russia  
e-mail: world@ruvr.ru  
Fax: (7-495) 951-95-52

Do you want your radio ad to reach out to the world via the Voice of Russia? Feel free to contact us: +7 495 950 6070 adv@ruvr.ru  
Offers for VoR content distribution: distribution@ruvr.ru

Dear listeners!

You can send your offline letters to Voice of Russia for free! Type in this address on an envelope, seal it up and drop it in a mailbox. No stamps required. And don't put any marks on the face of the envelope. If you find it necessary, you can write your address on the back. This is a good option if you need to send a letter or a parcel with printed materials. Should you face difficulty typing the address on the envelope, you can print it on paper and paste it on. Keep the image scale intact. We're looking forward to your letters!

Do you want your radio ad to reach out to the world via the Voice of Russia?

Feel free to contact us:  
+7 495 950 6070  
reklama@ruvr.ru  
Read more: <http://voiceofrussia.com/contacts/>  
(via DXLD)

\*\* RUSSIA. Moscow University Station 25900 kHz --- With the high-ish sfi (165) the Moscow University station on 25900 is strong into London this early afternoon on 25900 kHz. Regards (Stuart satnipper, 1211 UT Fri Dec 13, BDXC-UK yg via DXLD)

Moscow: Hearing Radio MTUCI now (13 Dec 2013) --- Coming through now on 25900 kHz via Global Tuners Italian remotes in Rovigo (fair) and Rimini (good). This is on Fridays only, 1200-1500 UT. A.k.a. "Radio Green Eyes", but no such ID heard as of 1220 UT (David Kernick, 1225 UT, dxldyg via DX LISTENING DIGEST) More below

Hard rock music now at 1228 UT. Nice 400 watt signal. Reception on 11 mb depends of the used receiving antenna. S=6-7 on remote units in Greece, Italy, and Netherlands. S=8-9 signal on Switzerland St. Gallen and Basel sdr remotes, also same level on some remote SDR rxs in Germany too. vy73 wolffy df5sx (Wolfgang B.schel, ibid.)

Fair signal in Caversham at 1320 UT on 25900 - SINPO 25432 with rapid fading and peaking around S7 (Alan Pennington, Caversham, Berks, UK,

AOR 7030plus and ALA 1530 loop, BDXC-UK yg via DXLD)

Radio MTUCI observed on 11-metre band 13 Dec --- 25900 kHz on air with ID in Russian at 1200 UT followed by 'Boys Don't Cry' by The Cure and another rock song. A canned ID came at 1208 - "Radiostantsiya Moskovskiy Tekhnicheskoy Universitet Svyazi i Informatiki" [Radio Station Moscow Technical University of Communications and Informatics] - then a rock music show presented by two or more women in the studio. Listened till 1225 then on and off till 1300 without hearing any "Radio Green Eyes" ID, perhaps that's just a slogan or programme name. Reception was fair via Global Tuners remotes in Rovigo and Rimini (both Italy). (David Kernick, Interval Signals Online, 1950 UT Dec 14, dxldyg via DX LISTENING DIGEST)

\*\* RWANDA [non]. 17540, CLANDESTINE, Radio Mara ñ Talata-Volondry [MADAGASCAR], 1732-1758\* Dec 7, discussion between a man in the studio and another man from a remote location in presumed Kinyarwanda language. Some light instrumental music between segments with a regional vocal at closedown. Fair to good (Richard A. DiAngelo, Wyomissing, PA 19610 U.S.A, Dec 17, Ten-Tec RX-340, Drake R-8B, Eton E1, Eton E5, Alpha Delta DX Sloper, RF Systems Mini-Windom, Datong FL3, JPS ANC-4, via Craig Seager, ARDXC via DXLD)

BELGIUM (non), Upcoming frequency changes of BRB clandestine stations: Radio Inyabutatu, 1700-1800 NF 15310 ISS 250 kW / 130 deg to EaAf Kinyarawanda Sat, ex 17870 (Ivo Ivanov, DX RE MIX NEWS #823, December 13, 2013 via DXLD)

Note the unusual double frequency entries at present shown for Radio Inyabutatu and Radio Assenna at <http://www.airtime.org/shortwave/schedule.php>

I checked them out tonight shortly before 1800. The results: For Radio Inyabutatu no trace of a signal on 17870 and a trace of a carrier, not necessarily related of course, on 15310. Presumed Radio Assenna was weak on 15245, no result on 11720 where buzz from the neighbour's TV would have obliterated possible weak signals. And no trace of the also listed ESAT on 15370, but who knows to where they hopped tonight.

This really needs monitoring from outside Central Europe (Kai Ludwig, Germany, Dec 14, dxldyg via DX LISTENING DIGEST)

Alyx & Yey, former Broadcast Belgium (BRB) changes: Radio Inyabutatu on Dec. 14: 1700-1800 NF 15310 ISS 250 kW / 130 deg EaAf Kinyarwanda Sat, ex 17870 (Ivo Ivanov, DX RE MIX NEWS #825, December 15, 2013, via DXLD)

Hello, I can confirm reception of Radio Inyabutatu sign on 1700z with

music on Dec 14 Saturday, 15310 kHz. Ex frequency 17870 nothing heard. (Rich Ray, Burr Ridge, IL USA, Dec 15, dxldyg via WORLD OF RADIO 1700, DX LISTENING DIGEST)

MADAGASCAR: 17540, Radio Mara (tentative); 1713-1731+, 14-Dec; M&W in Afro language with many mentions of Rwanda; Afro-pop tune at 1726+. SIO=3+44 with brief pulse burst (Harold Frodge, M.A.R.E. DXpedition, Brighton MI, Drake R8B + 500' NEish unterminated bev + 85' TTFD, All logged by my ears, on my receiver, in real time! DX LISTENING DIGEST)

BELGIUM (non) Confirmed frequency changes of Alyx&Yey clandestine stations: R. Inyabutatu, Kinyarwanda/Kirundi from Dec 14 1700-1800 NF 15310 ISS 250 kW / 130 deg to EaAf Sat, ex 17870 (Ivo Ivanov, DX RE MIX NEWS #828 December 18 via WORLD OF RADIO 1700, DXLD)

\*\* SAINT KITTS [and non]. 2013 Newfoundland DXpedition --- Initial Observations by Jim Renfrew --- It may take a long time for us to plow through a terabyte of Perseus files from Cappahayden. But here are some observations from NOV 9-16:

1. 820 St. Kitts was absent the entire week.
2. Caribbean receptions were markedly missing, at least to me. All that I noted so far are stations in Cuba and Puerto Rico. Venezuela was much diminished, too, either because stations are off the air or due to reduced schedules or power? These observations may change once I review all of the Perseus files, but that will take some time. In 6 weeks I have managed to cover most files from only one night (NRC IDXD Dec 13 vi DXLD)

\*\* SARAWAK [non]. 15420, R. Free Sarawak via Taiwan, Dec 10 1140-1150, 45444 Iban, Talk, ID at 1142 (Kouji Hashimoto, JAPAN, RX, IC-R75, NRD-525+RD-9830, NRD-515, NRD-345, Satellite 750, DE-1121, ANT, 70m Sloper Wire, DX LISTENING DIGEST)

\*\* SARDINIA. AUDIOCLIP: THE HISTORICAL ANNOUNCEMENT OF RADIO SARDEGNA (1945) --- Radio Sardegna was the first Italian free radio after September 8, 1943. The station's manager was the Italo-American writer Guido D'Agostino charge by the US Army. The audioclip with the identification is available here:

<http://blog.libero.it/radioascolto/12565583.html>

73 de (Francesco SWL I0-5639 Cecconi, Dec 17, condiglista yg via DXLD)

\*\* SAUDI ARABIA. Changes at BSKSA --- As Rumen Pankov pointed out, the BSKSA shortwave service has been renamed "Radio Saudi International" (DXLD 13-50). Here are some other changes which have recently taken place at the state broadcaster:

The first domestic service, formerly known as the General Programme, now identifies as iRadio Riyadhî.

The second domestic service, formerly known as the Second Programme, now identifies as iRadio Jeddahî.

The European Programme, a domestic FM network, now broadcasts 24/7 in English. French, Bengali, Indonesian programming has been dropped. This service, formerly identifying as iRadio Riyadhî, has also been renamed, though to what is unclear at the moment (the relevant live stream is silent).

English has been dropped from shortwave, as has 0800-1000 UT French. See DXLD 13-48 for updated schedule.

There are two websites available with live audio streaming, <http://www.sr.sa> and <http://www.sm.gov.sa>. The former is in Arabic, whilst the latter has an English option and also a live stream of some shortwave broadcasts, observed as follows: 0900 Indonesian, 1200 Urdu, 1500 Persian, 1800 Turkish (2100-0900 UT period not surveyed)

The foregoing observations are based on shortwave checks carried out 16-18 Dec 2013, DXLD (as referenced above) and web research, especially <http://www.alsharq.net.sa/2013/11/04/98805>

Interval Signals Online has updated clips reflecting some of the above changes, check out <http://www.IntervalSignals.net> (David Kernick, Dec 18, dxldyg via WORLD OF RADIO 1700, DX LISTENING DIGEST)

\*\* SERBIA. Re DXLD 13-50: Serbia, "Inactive transmissions": I think I recently read somewhere that the grounds of the former Stubline transmitter site have been sold. So it does not appear as if "BEO" transmissions will ever be on air again, no matter how long they still file them to HFCC (Kai Ludwig, Germany, Dec 15, dxldyg via DX LISTENING DIGEST)

\*\* SEYCHELLES [and non]. 15420, Dec 13 at 2006, BBCWS in English is still on here with report about Egypt, colliding with WBCQ anapaestic androgynous preachperson, which previously was in the clear after 2000. Most of WBCQ is on USB, so BBC is better by listening on LSB, tho not completely WBCQ-less. There's also a het since the reduced carrier remaining from Monticello is as always off-frequency. HFCC shows that since 6 December, the 15-20 UT BBC broadcast has added another hour until 21, same 250 kW due west, and supposedly for the rest of the B-13 season until oblivion 30 March. This is one of several SW schedule expansions by BBC to Africa; why? Temporary? (Glenn Hauser, OK, DX LISTENING DIGEST)

\*\* SINGAPORE. Subject: [vhfskip] BBC 30.57 Singapore 11-12 UT. I forgot to mention that I heard the BBCWS Singapore harmonic on 30570 (2 x 15285) from 1100 to fadeout 1140, on 12 Dec. The Singapore (Kranji) broadcasting site has been a source of HF harmonics going back to the mid-70s when I first encountered them. Regards, (Tony

Mann, Western australia, 0356 UT 13 Dec, vhfskip yg via Tim Bucknall, Congleton, UK, harmonics yg via DXLD)

\*\* SOLOMON ISLANDS. 9545, 0359, Radio Hapi Isles SIBC Honiara, reactivated daytime frequency, noted most days since 31/10. Sked appears to be 2200-0500 but some variations to opening & closing times observed. Sometimes fair-good strength from 0300 onwards. On 5/11 had recorded ident at 0359 including refs to ðthe Unified Voiceí, followed by Pidgin news. Closed abruptly 0501 during Radio Australia news relay

6080, 0607, SIBC Honiara first noted here 22/11 with BBC programme relay in English (only Brazil audible when frequency checked at 0552). Cut abruptly 0630:30 for ident as iYouíre listening to Radio Hapi Isles on 1035 AM and 50-20 shortwaveí then repeated in Pidgin. Later 5019.88 noted in //. On 23/11 audible at 0535 mixed Brazil. Scheduled 0500-1200 UT (Bryan Clark at Mangawhai (Northland), North Island, New Zealand, with AOR7030+, EWes to North, Central & South America, 100m BOG to NE and Alpha Delta Sloper antennas, Nov-Dec NZ DX Times via DXLD)

6080, SIBC, Dec 12 0759-0809, 34433, Pidgin, IS and ID at 0800, News (Kouji Hashimoto, JAPAN, RX, IC-R75, NRD-525+RD-9830, NRD-515, NRD-345, Satellite 750, DE-1121, ANT, 70m Sloper Wire, DX LISTENING DIGEST)

\*\* SOMALILAND. 7120, Dec 14 at 0333, R. Hargeisa, fairly good at S9+18 with Qur'an for a few minutes, then Somali talk. Much better than I can ever hear it circa 1400\* by long path, but I am seldom DXing at 0330 (Glenn Hauser, OK, DX LISTENING DIGEST)

\*\* SOUTH AFRICA. Unscheduled Channel Africa transmission on 17770, 15th Dec 2013 (Sun) - At 1505 UT unscheduled Channel Africa in Swahili on 17770 kHz; Nelson Mandela Special? (Alokesh Gupta, New Delhi, cumbredx via DXLD)

Channel Africa just noted signing-on on 15235 kHz at 1600 UT Sunday in French. Normally scheduled Monday to Friday only. Most likely a special Nelson Mandela transmission. English is likely to be aired at 1700 UT on same frequency (Alan Roe, Teddington, UK, Dec 15, dxldyg via DX LISTENING DIGEST)

Confirmed English at 1728, Sunday 15 December. Interview with George Bizos, so yet another item on the life and times of Madiba. On to The Elders at 1730, ID "Channel Africa" at 1733 (Bill Bingham, Johannesburg RSA, dxldyg via DX LISTENING DIGEST)

15235, 15/Dez 1751, CHANNEL AFRICA, Special transmission, in English. ID, YL talk, at 1752 local pop music. At 1800 beep signal and ID by OM

in African language (Swahili?). At 1802 out of the air abruptly. 25432 (Jorge Freitas, Feira de Santana, Bahia, 12 14ZS 38 58ZW - Brasil, dxldyg via DX LISTENING DIGEST)

\*\* SOUTH CAROLINA [non]. Brother Stair, instead of Pan American Broadcasting via MBR:  
1500-1600 15260 ISS 100 kW / 085 deg to WeAs English noted Sun Dec. 15  
1900-2000 15210 ISS 100 kW / 133 deg to EaAf English noted Sun Dec. 15  
(Ivo Ivanov, DX RE MIX NEWS #826 December 16, 2013, via DXLD)

Are you sure this is not still PAB, merely relaying BS rather than a direct BS deal with MBR? (gh, DXLD)

GERMANY (non), Media Broadcast changes: Brother Stair  
1500-1600 15260 ISS 100 kW / 085 deg to WeAs English Sun, till Dec. 29  
1900-2000 15210 ISS 100 kW / 133 deg to EaAf English Sun, till Dec. 29  
(Ivo Ivanov, DX RE MIX NEWS #828 December 18, 2013 via DXLD)

\*\* SPAIN [and non]. 11780, Dec 17 at 0114 since I happen to be monitoring on UT Tue, check for the weekly REE Emisi n Sefarad. At first only hear RNAmazonia, Brasil, but at 0115 REE IS only once, and then opening the Sephardic show; almost equal level to Brasil, heavy collision as usual while REE's alternate frequency 11795 in the clear goes completely to waste (Glenn Hauser, OK, DX LISTENING DIGEST)

\*\* SRI LANKA. 11905.000, SLBC Colombo via former DWL Trincomalee relay in Hindi language (not English), S=9+15dB signal. 0143 UT Dec 15 (Wolfgang B\_schel, wwdxc BC-DX TopNews Dec 15, dxldyg via DXLD)

\*\* SUDAN [non]. MOLDOVA: 9940, Radio Miraya; 0349-0413+; 14-Dec; English & LL [unknown language] African news features with frequent mentions of Uganda/Kampala, spaced with Afro-pop. Radio Miraya SID at 0413. SIO=242+; one brief clicking QRM (Harold Frodge, M.A.R.E. DXpedition, Brighton MI, Drake R8B + 500' NEish unterminated bev + 85' TTFD, All logged by my ears, on my receiver, in real time! DX LISTENING DIGEST)

\*\* SUDAN [non]. Reception Report for Radio Dabanga (!) on UT Friday, 12/13/2013 --- Heard on 7315 kHz from Darfur, Sudan (as I understand it, via Hilversum, Netherlands) from 0540 until 0557 UT. Picked up musical theme of "Radio Dabanga" repeated 4 times around 0540 UT, followed by male announcer to 0545 (and the theme music again) followed by female announcer to (the theme again) to 0547, with a male voice mentioning Darfur several times to 0550. Apparent Islamic chant began around 0550 and ran until approximately 0554 UT. Ending theme led to abrupt cutoff at 0557 UT early Friday morning [Dec 13] (this is apparently their "Morning News II" segment). I have contacted the station to see if this report is QSL worthy.



Note: I had no idea what station I was REALLY hearing until I found their website:

[https://www.radiodabanga.org/?page\\_id=59](https://www.radiodabanga.org/?page_id=59)

As a result, I can understand why Darfur was mentioned as often as it was during the program -- their catch phrase is "Independent news and relevant information from the heart of Darfur". I don't know if you or your contacts have ever heard this station, so it may be worth a quick mention on a future broadcast of World of Radio with a mention in DX Listening Digest as well -- edit as you must. (I know it's not the Cuban Numbers Station that I've contacted you about in the past, but on some nights, "The Cuban Lady" just isn't on the air!) Sincerely, (Shawn S Fahrer, DX'ing from Flushing NY (in NYC), 0404 UT Dec 14, DX LISTENING DIGEST)

Hi Shawn, Tnx for your report. I think you'll find that R. Dabanga (and R. Tamazuuj before it at 0400) come in quite well just about any night. Sponsoring organization is in Netherlands, but transmission is from Vatican, with 250 kW, and we get a lot of signal off the back of their antennas.

Here's one handy reference schedule updated daily where you can look up what you hear:

<http://www.geocities.jp/binewsjp/ia/bib13.txt>

including this:

7315 Radio Dabanga 0429-0557 1234567 Arabic/Sudanese 250 150 Santa Maria di Galeria CVA 4203N 01219E PNW/FPU b13

7315 Radio Tamazuuj 0400-0429 1234567 Arabic/Sudanese 250 150 Santa Maria di Galeria CVA 4203N 01219E PNW/FPU b13

Regards, (Glenn to Shawn, via DXLD)

15550.10, R. Dabanga via UAE, Dec 13 0508-0517, 33443, Arabic, Talk, ID at 0511, SJ at 0512 (Kouji Hashimoto, JAPAN, RX, IC-R75, NRD-525+RD-9830, NRD-515, NRD-345, Satellite 750, DE-1121, ANT, 70m Sloper Wire, DX LISTENING DIGEST)

15535, R Tamazuuj, Vatican, 14/12 1510, S9+20 Sudanese Station, ID mentioned. About Sudan. Question: is Radio Tamazuuj transmitting from Vatican city? 73 (Nick VK2DX [Sydney] Hacko, NSW, dxldyg via DX LISTENING DIGEST) q.v.

Sponsored/brokered by Press Now Netherlands see SUDAN [non].

15535 Radio Tamazuuj 1459-1529 daily Arabic/Sudanese 250kW 150deg Santa Maria di Galeria CVA Vatican State PNW/FPU b13

15535 Radio Dabanga 1529-1627 daily Arabic/Sudanese 250kW 150deg

Santa Maria di Galeria CVA Vatican State PNW/FPU b13  
(Wolfgang B,schel, dxldyg via DX LISTENING DIGEST)

PNW {"Press Now". <<http://www.pressnow.nl/>> wb df5sx}  
"Press Now"  
Witte Kruislaan 55  
1217 AM Hilversum  
The Netherlands  
T +31 35 62 54 300  
website <<http://www.pressnow.nl/>> E-mail <info @ pressnow.nl>  
BUT NOW changed

PNW rather <<http://www.freepressunlimited.org/>>  
<<http://www.freepressunlimited.org/projecten>>  
<<http://www.freepressunlimited.org/dossier/radio-dabanga>>

<<http://www.radiodabanga.org/>>  
Frequencies  
<<http://www.radiodabanga.org/node/196>>  
Programs  
<<http://www.radiodabanga.org/node/42>>

Automatic translation:

Darfur, the western region of Sudan. The media climate in Sudan is very restrictive: all media is controlled by the Sudan government. In Darfur was no independent news source focused on the area. Unlimited Free Press in 2008, therefore, the independent radio station Dabanga set up for the information vacuum in Darfur break. This radio station has the final editing in the Netherlands, with most reporters in the region itself: 60% of the news are produced locally.

Since December 1, 2008 Radio Dabanga sends news and information programs in Darfur. It is an independent radio station for and by Darfuris. The news comes from correspondents in Darfur and elsewhere in Sudan. The transmitter wants all people in the region with reliable information on safety, education, health and human rights, whatever their ethnic background or political affiliation. For the international community, including NGOs working in the field, Radio Dabanga is a source of news. The Sudanese government attempts to transmissions of radio Dabanga oppose using a jammer.

In 2009 a study revealed that Radio Dabanga more than 2 million listeners from Darfur, Chad and the Diaspora, the station is now a great success. From an audience survey showed that about 60% of the population knows Dabanga Radio and listen to the station. The researcher Graham Mytton said he had never in his career at a relatively young radio listeners has set such a high percentage.

In 2011, emits Radio Dabanga 2.5 hours a day, in Darfur and Arab-five local languages. Successful programs are "Lost & Found", which people can identify their loved ones and "Frankly ghosts. In this program, people from different ethnic groups have their say. Furthermore, the transmitter sends out a lot of local news, so the audience can identify with the news and learn about their environment.

The website has all the latest news  
<<http://www.radiodabanga.org>> available in English and Arabic.  
(via Wolfgang B,schel, dxldyg via DXLD)

\*\* SWEDEN. SAQ TRANSMISSION ON CHRISTMAS EVE, DECEMBER 24, 2013

There will be a transmission with the Alexanderson 200 kW alternator on VLF 17.2 kHz from Grimeton Radio/SAQ on Christmas Eve, Tuesday, December 24th, 2013. The message transmission will take place at 0800 UT. The transmitter will be tuned up from around 0730.

There will be no activity on amateur radio frequencies with the call SK6SAQ this time. The radio station is open to visitors.

QSL-reports are kindly received:

- E-mail to: [info@alexander.n.se](mailto:info@alexander.n.se)
- or via: SM bureau
- or direct by mail to:

Alexander - Grimeton Veteranradios Vaenner, Radiostationen,  
Grimeton 72

S-432 98 GRIMETON

S W E D E N

Also read our web site: <http://www.alexander.n.se/>

Yours, Lars Kalland, SM6NM

(via Mike Terry, Dec 15, dxldyg via WORLD OF RADIO 1700, DXLD)

\*\* SWEDEN [non]. The Swedish DX Federation will have three broadcasts on mediumwave and shortwave in early 2014 as follows:

Sunday 5 January at 1800-1900 UT on 1485 kHz (Radio Merkurs, Latvia)

Saturday 11 Jan at 1200-1300 UT on 7265 kHz (Hamburger Lokalradio)

Sunday 9 Feb at 1800-1900 UT on 1485 kHz (Radio Merkurs)

Saturday 15 Feb at 1200-1300 UT on 7265 kHz (Hamburger Lokalradio)

Sunday 9 March at 1800-1900 UT on 1485 kHz (Radio Merkurs)

Saturday 15 Mar at 1200-1300 UT on 7265 kHz (Hamburger Lokalradio)

The programmes will be produced and presented by Ronny Forslund and they will be mainly in Swedish. In addition to DX News and details about the Swedish DX scene there will be lots of nice music.

Hej! H%r kommer information om s%ndningarna frÅn SDXF n%sta År:

SDXF på kort- och mellanvåg

Under de tre första månaderna 2014 kommer SDXF att sända tre specialprogram över Radio Merkurs i Lettland på 1485 kHz och över Hamburger Lokalradio på kortvåg 7265 kHz enligt följande schema:

Radio Merkurs - sändagarna 5 januari, 9 februari och 9 mars kl. 1800-1900 UTC på 1485 kHz

Hamburger Lokalradio - lördagarna 11 januari, 15 februari och 15 mars kl. 1200-1300 på 7265 kHz.

Programmen produceras av Ronny Forslund.

// Christer Brunström (via Tom Taylor, Dec 15, DX LISTENING DIGEST)

see also LATVIA

\*\* SYRIA. Mensaje recibido de Radio Damasco:

Querido amigo: A pesar de la pena tan grande que tenemos en el corazón, no queremos dejar pasar este Nuevo Año 2014 sin desearte mucha felicidad y suerte. Todo el equipo de Radio Damasco te deseamos felices fiestas.

Para los buenos momentos, gratitud.

Para los malos, mucha esperanza.

Para cada día, una ilusión.

Y siempre, siempre, felicidad.

Esto es lo que te deseamos para el año 2014. Gracias por tu fidelidad.

Atte. Amelia Puga (via Ernesto Paulero, Dec 16, condiglista yg via DXLD)

Original copied with backwards punctuation, as if partly Arabic (gh)

\*\* TAIWAN. 14870, Xi Wang Zhi Sheng - (Sound of Hope,) at 2347, on 12/13. Male and female talking followed by short musical interlude with female talking. Fair (J. Cooper, Lebanon, PA, WR-G33DDC Excalibur Pro, RF Space-SDR-IQ, Grundig Satellit 750, Tecsun PL-660, Wellbrook ALA 1530+ Imperium, All Band Tuned Super Sloper, PARS-SWL End Fed, NASWA Flashsheet via DXLD) Standard doubt-raising about CNR1 jam (gh)

\*\* TAIWAN [and non]. Test frequency R. Taiwan International Dec 14/15: 1900-2000 6130 UNIdentified tx site WeEu French and // frequencies 9895 DHA 250 kW / 315 deg WeEu and 11875 ISS 500 kW / 190 deg NoAf (Ivo Ivanov, DX RE MIX NEWS #823, December 13, 2013 via DXLD)

Concerning the test of 6130 kHz for Radio Taiwan International in French 1900-2000, announced for yesterday and today: It is indeed in use, and it sounds like all the previous attempts to serve Europe with a 49 metres outlet from Al-Dhabbaya, rather weak and fadey. When the carrier came up shortly before 1900 it was overshadowed by much

stronger Biblis on 6140 with Voice of America in Azeri wrapping up.

The scheduled 9895 from Al-Dhabbaya appears to be in use, too, if the faint carrier on this frequency is not something else. It is even fainter than 11875 from Issoudun, scheduled for this French broadcast to Africa, indeed appearing to carry it (that's difficult to tell since there appears to be a considerable delay between 9895 and 11875, presumably both being independent play-outs).

Some source also claims that this transmission goes out on 7325 from Woofferton, too: I have a faint carrier on this frequency which could be anything. But it does not appear to be Woofferton (Kai Ludwig, Dec 15, dxldyg via DX LISTENING DIGEST)

Only a faint carrier on 6130 here in central Milan. 9895, on the contrary, is quite robust! 73 (Andy Lawendel, Italy, 1932 UT Dec 15, ibid.)

RTI French 6130 kHz has been a good, strong signal here in NW England, only with occasional slight fading and of better quality than on the WebSDR at Twente. 73 (Tony Molloy, Winter Hill, UK I083ro, CCW SDR4+ & CCW HF Active Antenna, @swlistener <http://swlistener.wordpress.com/> 2002 UT Dec 125, ibid.)

Thanks, folks, for the tip, just opened e-mail program and then looked into European remote units on 6130 and 9895 kHz: both outlets are indeed from Al Dhabbaya UAE.

6130 S=9+15dB in Italy, S=9+40 in western Germany, lesser signal strength of S=8-9 in eastern Germany, UK, Poland and Finland post.

But always accompanied by a big bassy HUM BUZZ of 140 Hertz, I guess strongly coming from TWR Africa Swaziland transmission in Portuguese 1920-1950 UT, but on odd 6129.860 kHz.

Another transmission on odd frequency in UAE on 9895.048 kHz only S=6-7 all over Europe, azimuth is meant towards zone 27SE - i.e. UK, France, Benelux, - hard to believe that. 73 wb df5sx (Wolfgang B,schel, ibid.)

\*\* TAIWAN. 5050.00, 2320-2330 11.12, R Taiwan Int., Kouhu, Chinese talk 32332 jammed by Voice of China // 4800 AP-DNK (Anker Petersen, from Skovlunde, Denmark, on my AOR AR7030PLUS with 28 metres longwire in 9 metres altitude - not touched by the latest two storms, via Dario Monferini, playdx yg via DXLD) ex 5010???? Or mistake? (gh, DXLD)

\*\* TAIWAN [non]. I tried tuning in to PCJ International on 9335 kHz at 1330 on my AR5000 with ALA1530 and random wire antennas and although I

could see a trace on my SDR-14 pan-display I could not hear anything. So I then tried the websdr at the University of Twente in the Netherlands which I occasionally use to compare with. The skip must have been unfortunate for me because after about 1400 I had heard a reasonable part of the programme on headphones. The programme was Christmas themed with "I'm dreaming of a white Christmas", "Do they know its Christmas time (feed the world)", "It's most wonderful time of the year" and ending with Stevie Wonder with "What Christmas means to me"

Station ID and contact address given around 1414. Reception improved by an S-point according to the SDR by the end and my report is SINPO 24232. Station ceased transmission at 1430:30 (Mike German, Peak District, UK, Dec 15, BDXC-UK yg via DXLD)

9335, 15/Dez 1425, SRI LANKA, PCJ Radio in English. Nothing here at my QTH. In SDR Twente, weak signal with a frequency deviation around 9334.9. At 1426 pop music. At 1428 interval signal, ID and at 1430 off. 73 (Jorge Freitas, Feira de Santana, Bahia, 12 14~~W~~S 38 58~~W~~W - Brasil, dxldyg via DX LISTENING DIGEST)

Sunday, December 22, 2013, 1330-1430 still on 9335 (via Sri Lanka) to S & SE Asia: Special via WRMI at same time on 11880 to North America (Victor Goonetilleke, Dec 12, PCJ Frequency Manager, DX LISTENING DIGEST)

[both with red Xmas card design making this announcement]

On December 22, 2013 we are added a second frequency for our annual Christmas show.

Time: 1330 to 1430 UT

Frequency: 11880 kHz

Date: December 22, 2013

Target: North America

This will be the same program going to listeners in Asia on 9335 khz. Seasons Greetings, (Keith Perron, Dec 12, DX LISTENING DIGEST)

PCJ Happy Station Show Specials --- Hi Glenn, Just to let you know before anyone else we have expanded the shortwave schedule for the holidays.

December 22, 2013

Europe: 5995 (Germany)

Southeast/East Asia (Sri Lanka) [9335]

North America: 11880 (USA) [WRMI]

Time: 1330 to 1430 UT

December 29, 2013 (live transmission)

Europe: 5995 (Germany)

Southeast/East Asia (Sri Lanka) [9335]

North America: 11880 (USA) [WRMI]

(Keith Perron, Dec 16, WORLD OF RADIO 1700, DX LISTENING DIGEST)

PCJ Radio International Special Happy Station Show:

1330-1430 on 5995 NAU transmitter site to WeEu English Dec. 22/29

1330-1430 on 9335 TRM 125 kW / 045 deg to EaAs English Dec. 22/29

1330-1430 on 11880 YFR 100 kW / 355 deg to ENAm English Dec. 22/29

(Ivo Ivanov, DX RE MIX NEWS #827 December 17, 2013 via DXLD) YFR=WRMI

\*\* TAJIKISTAN. 4765.06, Tajik R., Dec 14 1314-1324, 34433-33433, Tajik, Talk and music, ID at 1315 and 1317 (Kouji Hashimoto, JAPAN, RX, IC-R75, NRD-525+RD-9830, NRD-515, NRD-345, Satellite 750, DE-1121, ANT, 70m Sloper Wire, DX LISTENING DIGEST)

4765.056, Some prosa literature reading of verse poetry [?], read by both female and male announcer in Tajik language. And string instrument playing in between. S=9+15dB in Germany. 0107 UT Dec 15 (Wolfgang B\_schel, wwdxc BC-DX TopNews Dec 15, dxldyg via DXLD)

\*\* THAILAND. 9390, HSK9 Radio Thailand: 1237-1246+, 15-Dec; M&W in English with feature on the current anti-government conflicts, corruption, political reform, etc. SI0=3+43 (Frodge-DXP)

9965, HSK9, Radio Thailand; \*1900, 14-Dec; Call ID at s/on; "Radio Thailand News brought to you by Thai Airlines, the boutique airline." Strong buzz-pulse QRM -- mispunched CuBuzz jammer? not heard on 9955. Stopped briefly at 1901:39 but right back up (Harold Frodge, M.A.R.E. DXpedition, Brighton MI, Drake R8B + 500' NEish unterminated bev + 85' TTFD, All logged by my ears, on my receiver, in real time! DX LISTENING DIGEST) Maybe remnant of anti-R. Rep'blica jamming (gh)

\*\* TIBET [non]. 5980, VOA (Iranawila) 0018-0058\* 16 Dec. Surprised to find VOA with an easily-readable signal this evening. Usual TB chat by M/W with sounders tagged with "V-O-A" (signal never good enough before to hear this) + 3-note "V-O-A" chime at :54, :58 just before W with closing announcement. Not a hint of Chaski once VOA left, tho (Dan Sheedy, Swami's Beach, CA G5/PL380/6m X wire, DX LISTENING DIGEST)

\*\* TIBET [non]. Updated B-13 shortwave schedule for Voice of Tibet:  
1200-1215 NF 15542 DB 100 kW / 095 deg to EaAs Chinese, ex 15543  
1215-1230 NF 15548 DB 100 kW / 095 deg to EaAs Chinese, ex 15537  
1230-1245 on 15588 DB 100 kW / 131 deg to CeAs Tibetan no change  
1245-1300 on 15582 DB 100 kW / 131 deg to CeAs Tibetan no change  
1300-1315 on 9317 DB 100 kW / 095 deg to EaAs Chinese no change  
1300-1315 on 15582 DB 100 kW / 131 deg to CeAs Tibetan no change

1315-1345 NF 9322 DB 100 kW / 095 deg to EaAs Chinese, ex 9323  
1315-1345 NF 15577 DB 100 kW / 131 deg to CeAs Tibetan, ex 15582  
1345-1400 NF 9322 DB 100 kW / 095 deg to EaAs Chinese, ex 9323  
1345-1400 on 11517 DB 100 kW / 131 deg to CeAs Tibetan no change  
1400-1415 NF 11522 DB 100 kW / 131 deg to CeAs Tibetan, ex 11523  
1400-1415 on 15520 MDC 250 kW / 045 deg to CeAs Tibetan no change  
1415-1430 NF 11522 DB 100 kW / 131 deg to CeAs Tibetan, ex 11523  
1415-1430 on 15515 MDC 250 kW / 045 deg to CeAs Tibetan no change  
Changes between frequencies vary from 3 to 5 minutes  
(Ivo Ivanov, DX RE MIX NEWS #827 December 17, 2013 via DXLD)

\*\* TURKEY. 17755, Dec 12 at 1324-1325\* Turkish music poor-fair, maybe partly the new VOT IS at the end of the German hour, which serves us much better in North America than the following hour in English on 12035, exactly the same 500 kW, 310 degree beam from Emirler, and probably very same transmitter; both intended for Europe, but over day path, why does Germany get 16m and UK way down to 25m?

12035, Dec 14 at 1424, new IS from TRT is very poor, as a reminder of how useless the 1330 English transmissions is in the B-seasons (Glenn Hauser, OK, DX LISTENING DIGEST)

9610, Voice of Turkey; \*2130-2141+, 13-Dec; ToH pips/tone into English ID/sked/addys into English news at 2132 to Turkish Press Review at 2140+. SI0=3+33+ with splash from CRI on 9600. (Frodge-DXP)

12035, Voice of Turkey; 1336, 15-Dec; "...English service of the VoT" into English news. SI0=353. Not heard on 9655 (Harold Frodge, M.A.R.E. DXpedition, Brighton MI, Drake R8B + 500' NEish unterminated bev + 85' TTFD, All logged by my ears, on my receiver, in real time! DX LISTENING DIGEST)

[and non]. 9700, Dec 15 at 0618, VOT good signal with Turkish talk and music; one of best signals on band, besides 9650 DRM from Romania; no signal from 9420 Greece; no 9955 WRMI, but 9330 WBCQ, strange conditions. At 0632 TRT also on much weaker // 9820, as to be expected with only 250 kW, 138 degrees from Emirler, while 9700 is 500 kW, 310 degrees USward (Glenn Hauser, OK, DX LISTENING DIGEST)

\*\* UGANDA. 4976, Radio Uganda, Kampala, 1915-1927, 14-12, English, male, female, comments. 14221 (Manuel MÈndez, Lugo, Spain, Logs in Reinante, Sony ICF SW 7600 G, cable antenna, 8 meters, dxldyg via DX LISTENING DIGEST)

4975.97, 1925-1935 16.12, UBC, R. Kampala, vernacular ann, songs by choir, 25232 (Anker Petersen, on my AOR AR7030PLUS with 28 metres of longwire in Skovlunde, Denmark, via Dario Monferini, playdx yg via DXLD)



\*\* UKRAINE [non]. See CHINA

\*\* U A E. New MW DRM transmitter coming up in UAE --- First digital Malayalam Radio Pravasi Bharathi 810 AM to transmit from Abu Dhabi from May 2014

Pravasi Bharathi 810 AM, claiming to be the first fully digital radio station using the DRM standard, will operate from its headquarters in Abu Dhabi.

<http://www.emirates247.com/news/emirates/new-malayalam-radio-to-be-launched-soon-2013-12-15-1.531402>

--- (Alokesh Gupta, New Delhi, Dec 15, dx\_sasia yg via DXLD)

As per further info from station they are planning AM/DRM simulcast using a 200 kW Nautel transmitter.

Their website is coming up at <http://www.pravasibharathi.com/>

---- (Alokesh Gupta, New Delhi, Dec 17, ibid.)

#### MALAYALAM DIGITAL RADIO TO HIT AIRWAVES

Staff Reporter / 18 December 2013

Pravasi Bharathi 810 AM aims to reach out to millions of listeners, streaming music, discussions, news, current affairs and entertainment.

The world's first Malayalam digital radio will soon be available on UAE airwaves. More at :

[http://www.khaleejtimes.com/nation/inside.asp?xfile=/data/community/2013/December/community\\_December12.xml&section=community](http://www.khaleejtimes.com/nation/inside.asp?xfile=/data/community/2013/December/community_December12.xml&section=community)

---- (Alokesh Gupta, New Delhi, ibid.)

\*\* U K [and non] BBC changes:

0230-0300 9560 DHA 250 kW / 070 deg SoAs Hindi till December 13

0400-0800 15420vDHA 250 kW / 225 deg CEAF English, ex SEY

0800-1100 17640 SEY 250 kW / 280 deg CEAF English, additional

0800-1700 15400#ASC 250 kW / 027 deg WEAF English, additional

0800-1600 17830 ASC 250 kW / 085 deg CEAF English, additional

1100-1130 17640vDHA 250 kW / 215 deg EAf English, additional

1130-1400 21470 SEY 250 kW / 270 deg CEAF English, additional

1130-1230 17745 SEY 250 kW / 285 deg EAf Somali Sat, cancelled

1130-1500 21470 DHA 250 kW / 205 deg EAf Somali Sat, cancelled

1130-1500 15595 SEY 250 kW / 295 deg EAf Somali Sat, cancelled

1230-1500 21630 ASC 250 kW / 065 deg WEAF Hausa Sat, cancelled [not]

1400-1500 15420 WOF 250 kW / 120 deg EAf Somali, ex SEY

1500-2000 12095 WOF 300 kW / 140 deg CEAF English, ex SEY

2000-2100 15420 SEY 250 kW / 270 deg CEAF English, additional

2100-2200 11810 ASC 250 kW / 065 deg WCAF English Daily, ex Mon-Fri

2100-2200 12095 ASC 250 kW / 027 deg WEAF English Daily, ex Mon-Fri

2200-2400 12095 ASC 250 kW / 027 deg WEAF English, additional

2200-2400 12095 ASC 250 kW / 065 deg WCAf English, additional  
# strong co-ch HCJB Australia in Chinese/English/Japanese 1000-1130  
v=15420.1/17640.1  
(Ivo Ivanov, DX RE MIX NEWS #823, December 13, 2013 via DXLD)

\*\* U K [non]. Thanks, read on BBCWS item of Eike in dxld recently.

UAE/SEYCHELLES, 15420.105 BBC WS English S=9+20dB on sidelobe in Europe, takes not care of frequency ACCURACY - but thanks Eike's BBCWS listing, not anymore from Mahe Seychelles relay, BUT moved from Seychelles to Al Dhabbaya UAE site [this results in the inaccuracy sense] ... a lot of interview comments on Nairobi student on Nelson Mandela decease and tribute program.

[later] 15420.031 BBCWS UAE at 0510 UT Dec 12. News on Ukrainian protest movement clashes. TX wanders up and down little - 10 Hertz up to 15420.039 kHz (wb, wwdxc BC-DX TopNews Dec 7/12, dxldyg via DXLD)

Re: Looking at

<http://www.hfcc.org/data/schedbybrc.php?seas=B13&broadc=BBC>  
several new registrations have been added from the 6th December for BBC in English during the day and until midnight for BBC frequencies for Africa. Could this be for Mandela coverage or an admission that the cuts to the service to Africa were wrong?

Such an admission would not happen (it would be called "refocusing" anyway). As the additions started the day after Madiba passed away, this is mostly going to be special event coverage. 73, (Eike Bierwirth, Wiesbaden / Germany, dxldyg via DX LISTENING DIGEST)

Nothing heard on the following this morning via the Global Tuner in Hong Kong:

6195 0900-1100 SNG 46  
6195 0900-1100 SNG 51W,54  
9740 0900-1100 SNG 43SE,44SW,49E  
9740 0900-1100 SNG 51W,54  
11895 0900-1100 NAK 43E,44  
15285 0900-1100 SNG 43E,44

However as of 0940 BBC WS is on 15400 - checked via Twente SDR site. (Stephen Cooper, ibid.)

Concerning BBC WS: No trace of a signal right now on 17830, so it looks indeed as if it all is already over again (Kai Ludwig, Germany, 1238 UT Dec 12, ibid.)

At 2200 UT, BBC is on 12095 to W & C Africa on 2 transmitters from Ascension Island; they are about a second apart making a terrible echo

making in unlistenable (Peter W Hansen, Bethpage NY, Sent at 2210 UT Dec 12, ibid.)

Thanks for letting us know about this. The problem shouldn't reoccur tonight (Chris Greenway [BBC Monitoring], Dec 13, ibid.)

21630, Sat Dec 14 at 1339, BBCWS in Hausa is already on the air instead of \*1400 via ASCENSION; must be another extension like I heard on Friday after 2000 on 15105. Yes, HFCC now shows that since 23 November, 21630 Hausa, 65 degrees from Ascension, on Saturdays lasts from 1230 to 1500 instead of merely 1400-1430 on the other six days. More reason for SPAIN to have moved to 21640 on Saturdays, yet why stick to colliding 21630 on weekdays??? (Glenn Hauser, OK, DX LISTENING DIGEST)

Co-channel on 21470 between BBC in English & BBC in Somali on Dec. 14  
1130-1400 21470 SEY 250 kW / 270 deg to CEAF English, additional freq  
1130-1500 21470 DHA 250 kW / 205 deg to EAF Somali Sat Dec. 14 and //  
till 1500 15595 SEY 250 kW / 295 deg to EAF Somali Sat Dec. 14  
till 1230 17745 SEY 250 kW / 285 deg to EAF Somali Sat Dec. 14  
(Ivo Ivanov, DX RE MIX NEWS #825, December 15, 2013, via DXLD)

\*\* U K [and non]. BBCWS: A14 based on initial HFCC filings: [sites:]

KCH	1
KIG	3
MOS	3
TAC	3.5
ERV	4
MDC	6.5
WOF	17.5
DHA	23.5
MEY	29.516666666667
SLA	38
ASC	39.016666666667
NAK	44.75
SNG	58.25

Language	Hours
Sin	1.5
Tam	1.5
Uzb	1.5
Kin	5.5333333333333
Mya	6.75
Urd	7.75
Hin	8
Fra	8.4
Ben	8.5
Ara	9

Fas 11  
Hau 11.1  
Pus 12  
Prs 12.5  
Som 13.5  
Eng 153

(Stephen Cooper, Dec 17, dxldyg via DX LISTENING DIGEST) Compare to his previous data in March and September for A-13 and B-13 (gh)

Appears the increase in hours from Madagascar, Meyerton and Dhabayya will cover the loss of the Seychelles site. Also note 18 more xmtr hours of English, but how many of these might be the "special events" times/frequencies for Africa that were recently added to the B-13 registrations? I had thought there might be more cuts for A-14 with the new BBCWS funding mechanism, but perhaps not yet (Steve Luce, Houston, Texas, dxldyg via DX LISTENING DIGEST)

\*\* U K. Keep an ear on BBCWS' 'World Business Report' the day after Xmas, when you may hear a familiar voice about the future of SW (Glenn Hauser, WORLD OF RADIO 1700, DX LISTENING DIGEST)

\*\* U K [non]. Frequency change of Trans World Radio Africa via BABCOCK  
1800-1815 NF 5935 DHA 250 kW / 225 deg EaAf Tigrinya Mon-Thu, ex 5965  
1800-1830 NF 5935 DHA 250 kW / 225 deg EaAf Tigre Sat, ex 5965  
1800-1830 NF 5935 DHA 250 kW / 225 deg EaAf Kunama Sun, ex 5965  
(Ivo Ivanov, DX RE MIX NEWS #828 December 18, 2013 via DXLD) UK non??

\*\* U K. THE UK DIGITAL RADIO FIASCO --- The government made an announcement about digital radio this morning ... FM saved but yet more money to be spent to convince the public that DAB works... more wasted money ...  
<http://www.theguardian.com/media/2013/dec/16/digital-radio-switchover-broadcasters-ed-vaizey>

PS BBC news reports headlining 2015 DAB switchover target date "scrapped" (Mike Terry, Dec 16, dxldyg via DX LISTENING DIGEST)

NO DATE SET FOR DIGITAL RADIO SWITCHOVER

This article appeared in today's Daily Mail:  
<http://www.dailymail.co.uk/news/article-2524757/No-date-set-digital-radio-switchover-people-given-FM.html>  
(Tony Boreham, Dec 17, BDXC-UK yg via DXLD)

Members, The UK Communications Minister (Ed Vaizey) has now abandoned the analogue switch-off which was planned for 2015. This has received wide coverage in press articles. The targets for sales of DAB sets for home and vehicles have been missed and basically it is now a question

of waiting to see how the market reacts. In the meantime LW and MW are to continue on air for many years to come. 73's and 88's (Dan Goldfarb, Dec 18, mwmasts yg via DXLD)

\*\* UNITED NATIONS [non]. ROMANIA: 7290, IRRS; 1904-1930+, 14-Dec; "U.N. Radio in New York, U.N. News bulletin" to 1915 then wide variety of tunes to 1929+ IRRS ID & QSL info--P-mail only given. Continued in French at 1930+. SIO=343+ when hams not QRMing (Harold Frodge, M.A.R.E. DXpedition, Brighton MI, Drake R8B + 500' NEish unterminated bev + 85' TTFD, All logged by my ears, on my receiver, in real time! DX LISTENING DIGEST) Another SW station carrying UN Radio is Radio Habana Cuba; not sure about schedule if anything be fixed (gh, DXLD)

\*\* U S A. U.S. INTERNATIONAL MEDIA REACH RECORD AUDIENCES, WITH TV OVERTAKING RADIO === December 16, 2013

Alhurra TV's correspondent Omar Twati reporting from Libya [caption]

Washington, D.C. - Programming across the Broadcasting Board of Governors' global media networks reached an estimated 206 million people per week in 2013, including large audiences in countries that are strategically critical for U.S. foreign policy.

The 206 million weekly reach reflects the combined TV, radio, Internet, and mobile audiences of Voice of America, Radio Free Europe/Radio Liberty, Radio and TV Marti, Radio Free Asia and the Middle East Broadcasting Networks (Alhurra TV and Radio Sawa) and is a net increase of nearly 31 million from last year's total, as detailed in the BBG's 2013 Performance Accountability Report [101 pages].  
<http://www.bbg.gov/wp-content/media/2013/12/BBG-FY-2013-PAR.pdf>

For the first time, TV audiences have surpassed radio, with the TV audience measuring 110 million and radio reaching 109 million people per week. The Internet audience has grown substantially from last year, with 22 million reached online. Some of the increase represents data from countries that were not surveyed previously.

"Our journalists produce high quality programming, and we're finding fresh ways to innovate in content delivery. This makes it possible for the networks supported by the BBG to reach these record-breaking audiences," said BBG Chairman Jeff Shell. "Through these means, we help to nurture and sustain free, open, democratic societies by supporting free press and free expression, and by conveying the American democratic experience to countries where the media are not free. This research data is critical in helping us navigate challenging media environments, and connecting with audiences on the platforms that they prefer."

The BBG strongly believes in meeting audiences on their media of choice. As such, the BBG employs diverse distribution models across its broadcast regions, ranging from syndication by placing an Alhurra TV program on a popular channel in Egypt, to Radio Free Asia and VOA's shortwave programs in tightly-controlled countries such as North Korea.

The BBG's largest audiences are in Indonesia (21.6 million), Nigeria (20.7 million), Mexico (14.9 million), and Iran (14.5 million), all countries in which the BBG has made strides in innovative programming.

In Indonesia, drawing on an affiliate-based strategy, VOA content is carried on six of the top national TV networks as well as on FM radio stations across the country. VOA also seeks digital distribution opportunities, particularly on mobile devices, ownership of which is growing rapidly in Indonesia.

In northern Nigeria, where the terrorist group Boko Haram has a foothold, VOA added weekend programming and a new SMS mobile service in the past year to provide breaking news updates. In 2013, the BBG expanded its overall broadcast reach in Africa by installing FM transmitters in Bamako, Mali, Juba, South Sudan, and N'Djamena, Chad.

In Mexico, VOA has partnered with high-profile affiliates to successfully place its Spanish Service's "U.S. Bureau" programming on networks where audiences most want to see it.

In Iran, the BBG has achieved success with a multi-platform, multi-network model. Programs are available on direct-to-home satellite television, as well as online and on mobile phones, 24 hours a day. VOA Persian and RFE/RL's Radio Farda recently launched a program collaboration in the form of Radio Farda's first TV program on VOA's and RFE/RL's satellite channels.

Audiences grew substantially in Pakistan, where more than 7.5 million people watch or hear BBG programming. In an effort to reach younger audiences there, VOA's Urdu Service placed fast-paced TV programs on competitive cable networks providing insight into American values and daily life.

Afghanistan and Iraq continue to be in the top ten BBG audiences globally, though decreases in reach suggest evolving media sectors as more local media organizations commence operations.

The data for the 2013 audience estimate come from surveys of adult (age 15+) populations in more than 90 countries conducted around the world over the past 5 years. More than 80% of these surveys were conducted with the previous two years.

For further facts and figures as well as information on research methods, please refer to the following information.

BBG 2013 Audience Overview (PDF)

<http://www.bbg.gov/wp-content/media/2013/12/2013-Audience-Overview-Factsheet.pdf>

BBG Research Methodology (PDF)

<http://www.bbg.gov/wp-content/media/2013/12/2013-BBG-Audience-Research-and-Research-Methodology-Factsheet.pdf>

(BBG PR Dec 17 via Hansjoerg Biener, DXLD)

\*\* U S A [non]. 11840, Dec 13 at 2029, VOA French from music to closing announcement, fair with fading, and cuts off 3-4 seconds before 2030\*; had been // much stronger 15225 Greenville, which is also off. HFCC shows 11840 is BOTSWANA, but on Sat & Sun, 11840 gets an additional semihour of French, switching to Sri Lanka instead, why?

9390, Dec 13 at 2033, VOA Korean service mixing in English phrases, language lesson, with lyrics of Xmas songs; also says ``K-pop is gaining popularity worldwide``. Makes me wonder how much VOA Korean is skewed toward an audience in the South vs the North. I never hear any noise or other jamming on VOA Korean services. Does that mean Un doesn't consider them a threat? Of course, SW receivers have been banned by the ROK to prevent listening to the DPRK (which can be heard on MW and FM anyway), but I think, not any more. Good signal, 38 degrees from Udorn, THAILAND, exactly the same azimuth as at 01-02 on 13745 in Thai to North America. This path usually escapes any polar flutter (Glenn Hauser, OK, DX LISTENING DIGEST)

\*\* U S A. VOA Radiogram for the weekend of December 14-15 includes international media news from VOA's "sister" broadcasters RFE/RL and Radio Free Asia. Modes will be MFSK16, 32, and 64. More information: <http://voaradiogram.net/post/69828157233/voa-radiogram-14-15-december-2013-international-media>

VOA Radiogram transmission schedule

(all days and times UT)

Sat 1600-1630 17860 kHz

Sun 0230-0300 5745 kHz

Sun 1300-1330 6095 kHz

Sun 1930-2000 15670 kHz

All via the Edward R. Murrow transmitting station in North Carolina (Kim Elliott, Dec 14, dxldyg via DX LISTENING DIGEST)

Good radio reception at normal conditions on 17860 kHz. No big challenges, but also no nasty surprises. At the end of my report a few captured images of old radio-receivers from France (decoded with

EASYPAL)

[http://www.rhci-online.de/VoA\\_Radiogram\\_2013-12-14.htm](http://www.rhci-online.de/VoA_Radiogram_2013-12-14.htm)

73+55 (roger, Germany, dxldyg via DX LISTENING DIGEST)

\*\* U S A [non]. 9885, Dec 16 at 0607, VOA `Daybreak Africa` in English, fair signal; used to be in French at this hour in A-13 season. Now in B-13, 06-07 is the only IBB usage of 9885, 100 kW, 124 degrees from S,,o TomE, VOA English daily per HFCC Dec 13. Hardly anything else audible on 31m now, 9410 & 9460 Ascension, 9955 WRMI, all poor, and higher bands even deader. WWV K-index was 3 at 06 tho solar flux was 156 (Glenn Hauser, OK, DX LISTENING DIGEST)

IBB changes: Voice of America from Dec. 20

0100-0200 NF 9845 IRA 250 kW / 356 deg SoAs English, ex 9790

0100-0200 NF 15130 PHT 250 kW / 270 deg SoAs English, ex 15205

1430-1500 NF 11595 BIB 100 kW / 085 deg WeAs Pashto R. Ashna ex 17580

1430-1500 on 11825 WOF 300 kW / 075 deg WeAs Pashto Radio Ashna ex IRA

1500-1530 NF 11595 BIB 100 kW / 085 deg WeAs Dari Radio Ashna ex 17580

1500-1530 on 11825 WOF 300 kW / 075 deg WeAs Dari Radio Ashna, ex IRA

1500-1530 NF 11695 IRA 250 kW / 334 deg CeAs Uzbek, ex 5875 UDO

1500-1600 NF 9900 PHT 250 kW / 270 deg SoAs Learning English, ex 9760

[9900: WORLD OF RADIO 1700]

Radio Liberty from Dec. 1:

1900-2000 NF 7460 IRA 250 kW / 332 deg to CeAs Russian, ex 9590 LAM

1900-2000 on 9515 LAM 100 kW / 055 deg to CeAs Russian, ex same WOF

(Ivo Ivanov, DX RE MIX NEWS #828 December 18, 2013 via DXLD)

\*\* U S A. WORLD OF RADIO 1699 monitoring: confirmed first airing Thursday Dec 12 from 2200:56 on WTTW-1, 9475. Also confirmed second airing, UT Friday Dec 13 from 0429:15 on WWRB, 3195; again, // 5050-USB is no longer in use. Next:

UT Saturday 0300v on Area 51 via WBCQ 5110v-CUSB

(usually a few minutes late after some other entertainment)

Saturday 0730 & 1530 on Hamburger Lokalradio, 7265-CUSB

UT Sunday 0029v on WTTW-2, 5085

UT Sunday 0501v on WTTW-1, 5830

Tuesday 1200 on WRMI, 9955

Wednesday 0730 & 1530 on HLR, 7265-CUSB

Full schedule including many webcasts:

<http://www.worldofradio.com/radioskd.html>

WORLD OF RADIO 1699 monitoring: confirmed on Area 51 via WBCQ 5110v-CUSB starting at 0302:34, until 0331:31 UT Saturday December 14. Next: 0730 & 1530 on HLR 7265-CUSB; UT Sun 0029v on WTTW-2 5085, UT Sun 0501v on WTTW-1 5830; Tue 1200 on WRMI 9955.



WORLD OF RADIO 1699 monitoring: NOT, last week's 1698 re-playing instead after 0030 UT Sunday Dec 15 on WTWW-2, 5085. Presumably the other airing at 0501 UT Sunday on WTWW-1, 5830 will really be 1699 as it goes thru a different service.

WORLD OF RADIO 1699 monitoring: confirmed on WTWW-1, 5830, UT Sunday Dec 15 at 0500:53, very good signal. Next: Tuesday 1200 on WRMI, 9955; Wednesday 0730 & 1530 on HLR, 7265-CUSB (Glenn Hauser, OK, DX LISTENING DIGEST)

\*\* U S A. 9955, WRMI, Radio Miami Int'l, 0105, 55555, px pregation/OM English / NOTA ==> sinal perfeito, uma beleza, Signal perfect (Daniel Wyllians, Nova Xavantina MT Brazil, 13 Dec, Radio Escuta PT 9008 SWL, RECEPTOR Tecsun PL 660 Antena Long Wire 10 Meters, <http://dxbrazilsw.blogspot.com/> dxldyg via DX LISTENING DIGEST)

Re DXLD 13-50: Okeechobee transmitters, "we still wonder if any of these now date back to Scituate, which?": Just take a look at <http://swcountry.be/usa.html>

The details given there obviously still reflect the current situation, with the exception that one of the ex-Scituate 50 kW transmitters is gone, perfectly matching a mention made by Jeff about one transmitter indeed being scrapped (Kai Ludwig, Germany, Dec 15, dxldyg via DX LISTENING DIGEST)

Look for a note f in the @ column under Scituate and Okeechobee, three transmitters, two x 50 kW and one 100 kW, which were installed in Scituate in 1967 and moved to Okee in 1973. But this still doesn't tell us which of the \*currently numbered\* WRMI transmitters are the two remaining imports from Scituate, and consequently on which frequencies we may hear them, if they are really in use, according to the graphic transmission schedule of WRMI (Glenn Hauser, DX LISTENING DIGEST)

As a beginning, one of them is transmitter #5, as seen at <http://kimelli.nfshost.com/images/1018.jpg>

I remember that a comprehensive photo set had been online somewhere (maybe Picasa / Google Plus), just can't find it back now. Checking out these photos could already give the full answer (Kai Ludwig, Germany, Dec 17, dxldyg via DX LISTENING DIGEST)

9955, UT Sun Dec 15 at 0137, Jeff and Thaô's White are talking Spanish about ice sculptures in Orlando and northern China, as this edition of 'Viva Miami' is really in Spanish instead of English. I wonder how you say ``Viva Miami`` in Spanish? Hi. Atop lite pulse jamming.

Recheck 0154, WRMI is open carrier/dead air; 0156 now with noise which

I soon determine is coming out of the 9975 KVOH transmitter instead, q.v. By 0202, mod has resumed on 9955, preacher in English, still with awful noise from Rancho Simi.

Meanwhile at 0155 I check other WRMI transmitters, all three with Brother Scare: 11730 extremely strong, in fact still audible stepping to 11725 and 11735, making me wonder if transmission itself is broader-band than normal. Also strong on 11565; strong enough on 9690 but this one is undermodulated with usual het.

9955, Monday Dec 16 at 1329, WRMI with 'Silent Night' probably in Czech as filler after R. Prague. Quite sufficient signal even tho at this hour it's off the back of the 160-degree antenna, and no jamming. 1330 Zanotti dotless ID, and 'Antena DX' with Víctor Gutiérrez in Panam. Starts with Mother's Day greetings, which will be 'mañana, domingo' in Panam (that was Dec 8, but the US Mission was observing it on Dec 9) and a song for the mothers. DX isn't exactly the top priority with this show, hi.

Further chex: 1342 report about fibre optic cable from Venezuela to Cuba not improving internet access much; then a new ethnic FM station in Honduras. 1250, a segment by Carlos, '5 minutos de tecnología'. 1354 'Radio Guía Internacional' segment from CDXA about Radio RSA with its old IS, IDs in English, Afrikaans, Afrikaans, and NA. If there was any SW DX news on the show, I missed it. Modulation suppressed by warmup from the next WRMI transmitter open carrier at \*1356:45-1357:30\*. Antena DX is not finished at 1358:45 when it's cut off for 'WRMI Scoreboard', and another ID in time for a preacher to start at 1400 sharp once the second transmitter has taken over on the 315 degree antenna.

It seems that R. Slovakia Internacional will not be coming back to 1330, which had been occupied since Dec 3 on Monday-Friday by KBS World Radio instead. Latest 9955 program schedule shows a new strip of programs at 1330:

Mon Antena DX  
Tue Angloparade (music?)  
Wed La Hora del Rock  
Thu WORLD OF RADIO  
Fri Wavescan

Yes, WOR has an additional time, Thursdays at 1330 on 9955. This should be the first opportunity for many to hear the new episode. Tnx, Jeff! Remains also at 0430 Thu, 1200 Tue (Glenn Hauser, OK, WORLD OF RADIO 1700, DX LISTENING DIGEST)

9955, Tue Dec 17 at 1345, WRMI amid 'Anglo-Parade' new timing, which

turns out to be a countdown of hit music in English, but presented in Spanish, why? Playback timing adjusted slightly, with 'WRMI Scoreboard' starting at 1359:10, but it's still not late enough to avoid cutting off the previous show. TOH English ID now starts at 1400 instead of earlier, and this time it's the voice of Rudy Espinal in Santo Domingo! Longtime SWLs will remember him as a favorite presenter back on Radio Clarín (whose 50 kW Wilkinson SW transmitter WRMI acquired and used from Hialeah until Dec 1); then after 1400 transmitter/antenna switch to northwest, preacher (Glenn Hauser, OK, DX LISTENING DIGEST)

Jeff, Also have been meaning to ask if you persuaded Dan Elyea to come out of retirement? (Glenn Dec 17, to Jeff White, via DXLD)

Glenn: I think Dan is happily retired, but I can assure you that he has been acting as a consultant for us for some time now. In fact, he was out at the station with us last Saturday. His expertise and enthusiasm for the project has been a great help to us -- I would say essential -- and I hope and expect that he will continue to be involved for a long time to come. This was his "baby" of course ever since it was built (Jeff White, WRMI, DX LISTENING DIGEST)

[and non]. 9955, Wed Dec 18 at 1329 checking WRMI, at tune-in instead of fill music post-Prague (which is still on the schedule from 1305), an English interview with an 88-year-old is cut off at 1330 for Zanoliti ID, then into another show in Spanish presenting music in English, but first, a few minutes of gab between the M&W hosts. Per sked, it's 'La Hora del Rock'. There is also some lite Cuban pulse jamming still audible today.

Until now, the other WRMI transmitter on the NW antenna has been coming on 9955 for a few seconds, a few minutes before 1400 as warmup, but this time it cuts on at 1349 and its unmodulated carrier stays on, suppressing audibility of the rest of the program in progress on the previous transmitter via SSE antenna! At 1359:20 cut off Rock show for 'WRMI Scoreboard', now switched to the stronger signal on the NW antenna/transmitter, celebrity ID by an unID voice; could it be Keith Perron? And into 'Wavescan' after 1400. Concluding with loggings from Bangladesh, and some Bahamian music, 1430 into this week's 'Viva Miami' in Spanish with Jeff & Tha0s.

WORLD OF RADIO has been scheduled at the new time of Thursdays 1330, and I hope it's not overlain or curtailed like the other 1330 shows have been so far. Of course, I would be happy if WRMI could switch to the NW antenna before 1330 (Glenn Hauser, OK, DX LISTENING DIGEST)

\*\* U S A. CONTROVERSIAL PREACHER HAROLD CAMPING DIES AT 92

OAKLAND, Calif. - The radio preacher who predicted "Judgment Day" would come in May 2011 has died in northern California.

A statement released late Monday by his Family Radio network says Harold Camping "passed on to glory" at 5:30 p.m. PT Sunday. He was 92. The statement revealed Camping had a fall at his home November 30, but he was in weak health due to a stroke since 2011.

Camping gained a national following through the Family Radio network of stations he helped found in 1959. He conducted daily on-air Bible studies and hosted a nightly "Open Forum" call-in show about Bible questions. The network includes a station in Emporia.

But Camping became an international laughingstock when he warned "Judgment Day" would occur May 21, 2011 with the second coming of Jesus Christ. He went on to say the world would end October 21, 2011.

Camping admitted to reporters he was "flabbergasted" when his prediction proved false. Donations to his ministry dropped noticeably after that, and Family Radio was forced to sell several of its most powerful FM stations to stay afloat financially.

The Family Radio statement notes Camping is survived by a wife of 71 years (KAKE.com News, Wichita KS, via Mike Cooper, 0304 UT Dec 17, DXLD)

For reference here's the original announcement from Family Radio wherein they pretend to be optimistic about their own future:  
<http://hosted-p0.vresp.com/1030185/5988170fbb/ARCHIVE>  
(Kai Ludwig, Germany, Dec 17, dxldyg via DX LISTENING DIGEST)

from the Washington Post (Dec 17):

HAROLD CAMPING, RADIO HOST WHO PREDICTED WORLD'S END, DIES AT 92  
By Sarah Pulliam Bailey, Religion News Service

Harold Camping, the radio preacher who convinced thousands of followers that Jesus would return on May 21, 2011, to usher in the end of the the world, has died, according to a statement released late Monday (Dec. 16) by his Family Radio network. He was 92.

Camping died Sunday evening, an employee at Family Radio confirmed. He had fallen at his home on Nov. 30 and had been in weak health due to a stroke since 2011.

Camping first predicted Jesus' return in 1994, but his most recent forecasts gained national attention through advertisements and the Family Radio network of stations he founded. He warned that "judgment

day" would occur in May 2011 and said the world would end in October 2011.

When his prophecies turned out to be false, he declared in March 2012 that his May 21 prediction had been "incorrect and sinful" and said his ministry would get out of the predictions business.

The ministry sold its prominent stations and laid off staffers, with assets dropping from \$135 million in 2007 to \$29.2 million in 2011.

Pressed by reporters after his May 21 prediction failed to materialize, Camping said he had miscalculated - it must be Oct. 21, he said. "I'm not a genius," he said. "I pray all the time for wisdom."

Starting in the 1950s, Camping broadcast his views via Family Radio, a global network of Christian stations for which he served as unpaid president and primary on-air talent. His teachings aired worldwide five nights a week via "Open Forum," a call-in show that draws listeners as far away as China and Ghana.

"Thank you for calling 'Open Forum,' " Camping said countless times in his trademark baritone, "and shall we take our next call, please?"

Camping was once well-regarded in among evangelicals, both for his encyclopedic knowledge of Scripture and his radio network. But in the late 1980s, when he began teaching that churches had strayed from the Bible embracing a false doctrine, he lost much previous support.

He also discouraged his listeners from joining a church, saying modern churches were heretical and that the "church age" had ended as the end of the world was near. He had no formal religious training beyond his tattered copies of the King James Version of the Bible and couldn't read or speak Greek, Hebrew or Jesus' native Aramaic.

His 2011 prophecy got widespread attention, including "Rapture Parties" hosted by atheists who wanted to "ridicule and poke fun at the fools." It gave one man the opportunity to create a fake business that offered to care for the pets of believers swept up by the Rapture.

His March 2012 statement, which in many ways amounted to the final time many people heard from Camping, expressed regret for the predictions, which had led many followers to sell all their possessions in anticipation of the end of the world.

Camping said people continued to wish for another prediction, but he had become convinced that critics were correct about the biblical

admonition that "of that day and hour knoweth no man."

"We must also openly acknowledge that we have no new evidence pointing to another date for the end of the world," he wrote at the time.

"Though many dates are circulating, Family Radio has no interest in even considering another date."

Camping is survived by his wife of 71 years, the statement says.

[http://www.washingtonpost.com/national/religion/harold-camping-radio-host-who-predicted-worlds-end-dies-at-92/2013/12/17/68256fae-6749-11e3-997b-9213b17dac97\\_story.html](http://www.washingtonpost.com/national/religion/harold-camping-radio-host-who-predicted-worlds-end-dies-at-92/2013/12/17/68256fae-6749-11e3-997b-9213b17dac97_story.html)

[Family Radio no longer broadcasts in English on shortwave - broadcast hours were drastically reduced following his failed prediction - currently only one hour a day in Spanish on shortwave. The WYFR transmitter site in Florida closed in June and was recently acquired by WRMI - Alan] (via Alan Pennington, BDXC-UK yg via DXLD)

HAROLD CAMPING, RADIO ENTREPRENEUR WHO PREDICTED WORLD'S END, DIES  
[http://www.nytimes.com/2013/12/18/us/harold-camping-radio-entrepreneur-who-predicted-worlds-end-dies-at-92.html?\\_r=0](http://www.nytimes.com/2013/12/18/us/harold-camping-radio-entrepreneur-who-predicted-worlds-end-dies-at-92.html?_r=0)  
[this was evidently an abridged version of longer story below]  
(via Kevin Redding, ABDX via DXLD)

HAROLD CAMPING, DOGGED FORECASTER OF THE END OF THE WORLD, DIES AT 92  
By ROBERT D. McFADDEN The New York Times December 17, 2013

Harold Camping, a Christian radio entrepreneur and biblical soothsayer who stirred consternation, ecstasy, complaints to the Federal Communications Commission and widespread ridicule by repeatedly prophesying the end of the world -- twice in 2011 -- died on Sunday at his home in Alameda, Calif. He was 92.

The cause was complications from a fall, the Family Radio network said in a statement on Monday night.

To a global following probably in the millions, Mr. Camping was the personification of the Family Radio network, broadcasting a nondenominational Christian ministry from Oakland, Calif., over scores of stations in the United States and 30 other countries. For 50 years he was the charismatic host of the network's "Open Forum," a 90-minute weekday call-in program of inspirational commentary, discussions and advice.

He was also a lifelong student of the Bible whose books rely on a vast assemblage of numbers, and with his affinity for numerology he became preoccupied with what he regarded as the greatest calculation of them

all: the mystery of what the Scriptures might reveal as the date of the apocalypse.

After the failure of his last prediction -- he said the world would end on May 21, 2011, and, when that didn't happen, amended the date to Oct. 21 -- Mr. Camping conceded that he had been wrong about the timing and had no evidence that the world would end soon. He offered an apology for his erroneous statements, which he called "sinful," and hinted that his days of apocalyptic warnings were over.

Critics called him a con man, a lunatic, a heretic and worse. But to his believers he was a throwback to the biblical prophets, spreading the word of Christ's second coming, of a Judgment Day and a rapture, when the faithful would ascend into heaven and nonbelievers would be destroyed in a five-month worldwide cataclysm of earthquakes, fires and floods.

He was, in any case, a determined messenger. Starting in the 1970s, he predicted the world's demise many times, drawing scant attention. His first widely noted doomsday was on May 21, 1988. He later published "1994?" -- a 500-page book setting a range of dates that September. Despite the derision of mainstream Christian groups and scathing secular critics, Mr. Camping, having conceded errors in his earlier calculations, decided to try again in late 2008.

The end, he said, would come on May 21, 2011. The date was based on a complex formula involving the biblical flood survived by Noah in what Mr. Camping said was 4,990 B.C., a 7,000-year clock that began ticking from that moment, and the subtraction of one year because of a difference in the Old Testament and New Testament calendars.

Mr. Camping, a thin man with a craggy face and a resonant baritone radio voice, relentlessly promoted the date and its fateful consequences for more than two years on his listener-supported network, on 5,000 billboards and in countless books and pamphlets translated into 75 languages. To pay for it all, he raised tens of millions of dollars from listeners.

As the day closed in, there was an avalanche of publicity: newspaper and magazine articles, television forums and nonstop chatter on the Internet. Opinions ran from portentous credulity to merry mockery, with lots of clownish commentary and anguished hand-wringing. Mr. Camping estimated that seven billion would die, and followers spoke of settling their affairs and spending their final days with loved ones.

No one knows how many people rushed into marriages, scrambled to repent, ran up credit-card debts, threw last parties, quit their jobs or gave away their possessions. But the reaction was widespread and in

some cases tragic, especially among people who feared being left behind to face an agonizing end.

With three days to go, a mother in Palmdale, Calif., stabbed her daughters, 11 and 14 years old, and cut her own throat with a box cutter, the police said, to avoid the calamity. All survived. A man in Taiwan, fearing that recent earthquakes and tsunamis signaled imminent doom, leapt to his death from a building. And in Antioch, Calif., a man who could not swim tried to reach God across a lake and drowned, the police said.

When nothing much happened on May 21, legions of crestfallen believers professed astonishment and disappointment. Many called Family Radio to denounce Mr. Camping as a false prophet. His Oakland station was vandalized, and there were threats against him, his family and station personnel.

Mr. Camping said he was "flabbergasted" that his predictions had not materialized. After a few days in seclusion to figure out what had gone wrong, he announced new conclusions -- basically that God had quietly completed Judgment Day on May 21 and closed the books on heaven ñ and said he had recalibrated the end-of-times date for five months later, on Oct. 21. The new prediction was delivered in low key, without billboards or pamphlets. Mr. Camping said there was no need because the process of salvation was over.

The F.C.C. received complaints from around the nation demanding revocation of Family Radio's broadcast licenses for having created a panic and deceived listeners into donating millions to perpetuate a falsehood. The F.C.C. rarely intervenes in religious disputes and was unlikely to act.

Weeks after the May 21 fiasco, Mr. Camping suffered a mild stroke and suspended his program. He returned in September, but spoke no more of earthquakes and fiery doom. He told listeners: "I really am beginning to think as I restudied these matters that there's going to be no big display of any kind. The end is going to come very, very quietly."

And nothing momentous happened on Oct. 21.

Five months later, in a letter to followers on his ministry's website in March 2012, Mr. Camping not only apologized for getting it wrong, but acknowledged that he had "no new evidence pointing to another date for the end of the world" and "no interest in even considering another date." But he found a silver lining in the confusion, noting that his "incorrect and sinful statement allowed God to get the attention of a great many people who otherwise would not have paid attention."



Harold Egbert Camping was born in Boulder, Colo., on July 19, 1921, one of five brothers raised in Southern California by Dutch immigrants steeped in the Protestant doctrines of the Christian Reformed Church. He earned a degree in civil engineering from the University of California, Berkeley, in 1942.

In 1943, he and Shirley Vander Schuur were married. They had six children and many grandchildren.

In 1946, he founded a construction company that prospered, and by 35, he was a millionaire. In the 1950s, he turned increasingly to Bible study, often devoting eight hours a day to the Scriptures.

He and two other men founded Family Stations Inc. in 1958 and, a year later, began broadcasting fundamentalist Christian programming on a San Francisco station. It was a rapid success. He later sold his construction company, became the expanding network's unsalaried president and general manager, and in 1961 began hosting "Open Forum." He also wrote some 30 books and pamphlets.

The network grew to at least 140 radio stations in America, Europe, Asia and Africa, two television outlets and a website. A 2009 financial disclosure published by the nonprofit news organization The Bay Citizen showed that the network had a budget of \$36.7 million, \$18.3 million in listener contributions, \$34 million in investments, \$56 million in assets and \$29 million in liabilities (via Mike Cooper, DXLD)

HAROLD CAMPING, RADIO EVANGELIST WHO PREDICTED 2011 DOOMSDAY, DIES AT 92 --- By T. Rees Shapiro.

Harold Camping, a Christian radio evangelist whose brimstone-ridden sermons stoked an international media frenzy in 2011 after his Armageddon prophecies coursed through the Internet and social media, died Dec. 15 at his home in Alameda, Calif. He was 92.

The death was confirmed by Family Radio, his Oakland, Calif.-based broadcasting company. He suffered a stroke in 2011.

That life on Earth continued after May 21, 2011, was a crushing disappointment to Mr. Camping, his legion of devout followers and millions who listened to his Family Radio network.

A civil engineer by training, Mr. Camping was a self-taught and self-described Bible scholar who developed his end-of-world prophecies through complex mathematical calculations and, he said, "clues sprinkled throughout the Bible."

"It is going to happen," he told NPR in early May 2011. "There is no Plan B."

He reportedly spent tens of millions of dollars to spread his doomsday message. His May 21 prediction was plastered on more than 5,000 billboards across the country. He had 100 million pamphlets printed in 61 languages, including some that read, "The End of the World is Almost Here!"

His volunteers canvassed the country, including dozens who walked Washington's Mall handing out fliers that reminded passersby to "Save the Date."

Through the Internet and social-media platforms, Mr. Camping's bold prognostication "was made all the more accessible to a wider demographic and more quickly," said Jay Johnson, a religion professor at the Graduate Theological Union in Berkeley, Calif. "He benefited from it in a way that no other [doomsday predictors] previously had."

In his deep, gravelly voice, Mr. Camping told listeners that Judgment Day would begin with a tremendous earthquake. True Christians, he said, would experience the rapture. In all, he predicted, 200 million saved souls would ascend to heaven.

Many of Mr. Camping's followers sold their homes, quit their jobs and depleted their savings accounts to help finance his end-of-the-world campaign.

After May 21 came and went, Mr. Camping emerged from his California home "flabbergasted." He called May 21 an "invisible Judgment Day" and said his calculations had been off by six months. The real Armageddon, he said, would come on Oct. 21, 2011.

Did his incorrect May prediction affect his reputation among followers? A moot point, he said.

On "October 21 of this year, the whole world is going to be annihilated, and never be remembered. So what legacy am I going to leave to anybody?" Mr. Camping told the online religion magazine Killing the Buddha in 2011. "The only thing is that I hope that there are people who are listening that will begin to plead with God and begin to cry out."

When the October prediction did not come true, Mr. Camping retired from his radio work.

Harold Egbert Camping was born July 19, 1921, in Boulder, Colo., and was raised in the Christian Reformed Church, a Protestant

denomination. In the 1980s, Mr. Camping split from the church to form his own congregation.

Survivors include his wife of 71 years, Shirley Vander Schuur. A complete list of survivors could not be confirmed.

Mr. Camping was a 1942 civil engineering graduate of the University of California at Berkeley and worked as an engineer for a government contractor during World War II. He started a construction business after the war but sold the firm to pursue a religious calling, he said.

He began preaching his blend of the Christian gospel over the airwaves in the late 1950s. He opened his first station in the San Francisco area, he said, because there was no Christian radio competition.

As his popularity grew and donations flowed in, Mr. Camping bought more radio stations in California and expanded his operation's reach.

By the end of his life, Mr. Camping's Family Radio -- its slogan was "Feeding God's Sheep" -- had become a \$100 million media empire. His worldwide network was broadcast over scores of affiliated radio stations as far away as Taiwan and Ghana.

He ventured into end-of-days prediction in the early 1990s. He wrote two books -- "1994?," published in 1992, and "Are You Ready?," published in 1993 -- explaining his calculations and offering guidelines for preparing the faithful for the rapture that he said would arrive Sept. 6, 1994.

Mr. Camping was not the first American evangelist to claim to know mankind's expiration date.

"One thing that sets [Mr. Camping] apart from the broader kind of apocalyptic flavor of Christian history is his insistence on an actual time and date. That's quite remarkable because it's easily disconfirmed," said Johnson, an expert on doomsday religious groups. "To have that firm confidence to have the ability to predict such an astonishing thing with such prescience was really quite stunning."

When his first prophecy in 1994 did not come to fruition, Mr. Camping said his revised calculations pointed to another year: 2011.

After the Oct. 21, 2011, Judgment Day passed, Mr. Camping apologized on the airwaves for misleading his listeners. He said he regretted his pronouncements and said he would retire.

"Let's pray more than ever for God's mercy," Mr. Camping said in a

message. "God is in charge, and we must always keep that in mind."  
(c) The Washington Post Company (via Mike Cooper, DXLD)

It will be interesting to see what happens to Family Radio. After his end of the world prediction two years ago (not the first time he got that wrong) didn't happen, contributions dropped by 70%. It has sold a large number of stations and laid off quite a few employees. I read an interview in which he said he didn't want Family Radio to continue after his death. Sent from my iPad (Dennis Gibson, CA, WB6TNB, ABDX via DXLD)

There is only one job requirement for a "prophet". You have to be right 100% of the time to the last detail. Anything less - and you are a false prophet. There was a prescribed punishment for false prophets - stoning to death, which is a lot kinder than what happened to astrologers who got something wrong in Pharoah's court. All this goes to say - Family Radio should have dumped him after the first false prophecy, and replaced him with somebody who either got things right, or didn't claim to be a prophet at all.

Some of you who don't know - I have a background in Christian radio. I used to take a lot of heat because I programmed Christian rock music for young people. I took it on the chin from people who don't like that type of music, even though I was drawing in the listeners, getting kids involved in church, etc. That's all I cared about, but people didn't like it because of the musical style. But the same people turn a blind eye to a complete false prophet because he dresses and talks the part, and has acceptable music to some people. God will not be fooled by false prophets or those who defend them! (R. Bruce Carter, *ibid.*)

\*\* U S A. 5050, Dec 15 at 0140, WWRB is back on this frequency, in AM instead of USB, and // 3215 as client apparently is willing to pay more (less than double?) for two frequencies in order to question Evolution; still so at 0210 when // has switched to 3195 (Glenn Hauser, OK, DX LISTENING DIGEST)

\*\* U S A. WITH REGARD TO VSI RADIO INTERNATIONAL

Dear Mr. Hauser, For your information: Allan Weiner did indeed call into his own programme on the last Friday of November while Tim Smith (Timtron) was hosting the show, and did announce that "The Next Chapter" would be airing on the following Wednesday, namely 4 December 2013, in the spot allocated for VSI Radio International.

This was a worrysome error on the part of Mr. Weiner, and after contacting him directly he apologised for the error and indeed VSI was broadcast on 4 December and 11 December as planned.

That said, the 11 December episode was the last episode of VSI Radio International for the indefinite future. VSI Radio International was a one-man operation and at present I cannot commit the time to producing the programme in light of a number of personal and professional commitments.

Allan Weiner has agreed to host all the past VSI episodes on the WBCQ archive server. I will be sending him the files in about two weeks. We will see when he gets around to posting them.

Kind regards, (Paul Lambert, VSI Radio International  
S^dra Ringv%gen 37  
S-68140 Kristinehamn  
Sweden, Dec 12, DX LISTENING DIGEST)

\*\* U S A. 9930, WTWW TN, Lebanon with BS preaching about Sodom & Gomorrah & other fun things, but there was something at almost the same strength that sounded like cross talk in the transmitter rather than somebody who was co-channel -- no hets etc. -- with traditional Christian music OM vocal and laid-back preaching from Oak Park, IL. Brother Scare abruptly stopped at :50, leaving only the laid back preachers talking about a hymn iLove of Godî written by someone in an insane asylum, and singing it & i0 Holy Nightî.

ID at :59 inear the banks of the Upper Cumberland River, this is WTWW Lebanon TN, USA.î into iRed Letter Edition Weekdaysî with Don Harris, talking about what Jesus said. 53+4+4+3+ because of the two programs, but up to 554+4+4+ without the bleed/misfeed issue! 2238-2308 7/Dec (Kenneth Vito Zichi, Williamston MI, MARE Tipsheet 14 Dec via DXLD)

[and non]. 12105, Dec 14 at 1426, WTWW in Biblical Russian, heavy CCI and SAH from IBB in Burmese via SAIPAN, during 1400-1430 overlap, unacceptable. Don't you believe Saipan beamed NW can't interfere with Lebanon beamed NE!

WTWW-3 also continues into the night with no corresponding lower channel unlike the other two WTWWs, even tho being a band higher, it's most in need of one. Winter nights after sunset, it's barely audible if at all.

5085, Dec 15 at 0141, WTWW-2 with big hum and pulsing; some kind of looping/feedback?? Experimental digital mode? But 0143 back to ham news in normal voice talking about digital media, no outro specifying that had just been an example/test. It had gone on for at least two minutes, unsounding like any VOA Radiograms.

9930, Dec 16 at 1514, WTWW-2 Brother Scare service is off, tho I think

it was on 5085 around 1330. 12105, WTWW-3 Russian Bible is also off now, while 9475 WTWW-1 remains on with SFAW (Glenn Hauser, OK, DX LISTENING DIGEST)

\*\* U S A. 17775.044, CALIFORNIA, KVOH The Voice of Hope, Rancho Simi. 1533 [Dec 8] Spanish Christian vocals, male canned Spanish ID's between, English ID into nice iGreat Jazz Instrumentals program from 1600 with Django Reinhardt, Wes Montgomery, Lionel Hampton, etc. Excellent on all radios including the portable Sony with built-in whip. A bit off-channel per measuring on the ICOM IC-R75 (Terry L Krueger, Clearwater, Florida, JRC NRD-535; JRC-NRD-515 (borrowed); ICOM IC-R75; Hammarlund HQ-180A; Sony ICF-7600GR; Sangean PR-D5; Aqua Guide 705 RDF Marine Radio; GE Superadio III; JPS NF-60 Notch Filter; JPS ANC-4 Noise Phase; 1 X roof dipole; 1 X room random wire; Terk Advantage non-active portable loop, DX LISTENING DIGEST)

9925-10025 approx., Dec 15 at 0156, KVOH 9975 is already on before scheduled \*0200, with prelude of praise music in Spanish, extremely distorted on fundamental and putting out spur field plus/minus 50 kHz or so, worse closer in, and first noticed as noise on 9955 WRMI which had defaulted to dead air for some minutes. Still QRMing it when trying to be heard in English at 0202. 10000 WWV totally blocked, altho probably not propagating much to here. I notified Ray Robinson ASAP that they should turn it off immediately until repaired. Ray replied at 0303:

``Hi, Glenn. Thanks for your message. We're having a problem with very high winds at the transmitter site tonight, which may be impacting the antenna. The engineering team are well aware of the issue, and will take whatever action is necessary.``

I think it was still on at my next check, but off at my next2 check 0417, while 9955 WRMI was still well audible.

Back at 0200 sign-on, announcement in Spanish about schedule changes, referring to <http://www.kvoh.net> where we can copy the details -- so they already plan to cut back the 9975 service:

``SCHEDULE CHANGE --- Effective Monday, December 16th, 2013, KVOH will broadcast on 16 meters in Spanish, Mon-Fri, from 1400 to 2000 UT, and on 31 meters in English, Sat-Sun, from 0300 to 0500 UT.

Our webstream relays all our shortwave broadcasts live, and at other times carries repeats of earlier programming. Program content on the webstream is in Spanish and English, at the following times:

0800-2000 & 2300-0300 UT ñ Spanish

0300-0800 & 2000-2300 UT ñ English

For details of our shortwave broadcasts, see updated program schedule.  
<http://kvoh.net/wp-content/uploads/KVOH-Program-Grid-English.pdf>  
``,`

It's apparent they really mean UT Sun & Mon for the 03-05 9975 in English, which includes preachers at 03-04 UT Sun, ``tbd`` at 03-04 UT Mon, and at

04-05: `Late Night from Los Angeles with Pat Conrad`:

UT Sun: (Bop Era & Beyond)

UT Mon: (Swing Era - 30s & 40s) Hmmm, 8-9 pm isn't exactly ``Late Night`` (Glenn Hauser, OK, DX LISTENING DIGEST)

17775, Dec 16 at 1443, KVOH ID and song in its new M-F 14-20 UT service in Spanish starting today, good signal. The only secular program on the new schedule is `Frecuencia al Dia`, Mon & Fri 1630 (Glenn Hauser, OK, WORLD OF RADIO 1700, DX LISTENING DIGEST)

New updated B-13 schedule of KVOH from December 16:

1400-2000 on 17775 VOH 050 kW / 100 deg to CeAm Spanish Mon-Fri

0300-0500 on 9975 VOH 050 kW / 100 deg to CeAm English Sun/Mon

(Ivo Ivanov, DX RE MIX NEWS #825, December 15, 2013, via DXLD)

17775, Dec 17 at 1409 JBA carrier from presumed KVOH; by 1447 ID as ``Voz de la Esperanza`` has built up to good level.

17775, Dec 18 at 1437, KVOH only fair signal so far, but by 1450 has built up to very good level, such that it's apparent they are employing a low-bit internet feed from studio to transmitter, which really degrades the music, also the talk. Maybe the topography makes it impractical to employ a hi-fi FM STL on the 900 MHz band?

The sun will keep rising a bit later each morning until early January; past that hump, KVOH starting 17 MHz as early as 1400 will become progressively less problematical. It's sunset times which have already reached their earliest the first week of December and are shifting later pre-Solstice, when they even out for the Shortest Day (Glenn Hauser, OK, DX LISTENING DIGEST)

\*\* U S A. 7520, Dec 14 at 0342, very good signal with extremely emotional YL in Russian drama. It's the Saturday-only WHRI broadcast on 7520 at 03-04 per HFCC. WHR online schedule shows this is `Your Story Hour`, but doesn't reveal it's in Russian! YSH is an Adventist show (Glenn Hauser, OK, DX LISTENING DIGEST)

7315, Dec 15 at 0204, `Pirating With Cumbre`, Chris, Lobdell with a 25 (or 21?) November log of My New Underpants, and playing clips of JFK Radio and something for Happy Hanukkah which he hopes will air before mid-December --- just made it! Must be a new episode at last. UT Sunday 0200 is a previously unconfirmed time for PWC/DWC on WHRI

(Glenn Hauser, OK, DX LISTENING DIGEST)

\*\* U S A. 15825, Thu Dec 12 at 2010, WWCN is advertising ``magnetic therapy``. Per program sked, at 2005-2015 M, T, TH and F is `Lyon Legacy` --- or rather Lyin'? (Glenn Hauser, OK, DX LISTENING DIGEST)

6295, WWCN Nashville TN; 0103, 15-Dec; Mixing product between 5935 carrying Rev. Barbie & 6115 with non-B.S. gospel huxter; both about = on 6295. (6115 - 5935) + 6115 = 6295 (Harold Frodge, M.A.R.E. DXpedition, Brighton MI, Drake R8B + 500' NEish unterminated bev + 85' TTFD, All logged by my ears, on my receiver, in real time! DX LISTENING DIGEST)

\*\* U S A. 13556.7/USB, MTI, Stone Mountain GA, hifer beacon; 2058, 8-Dec; sent very slowly over weaker one. At 1640, 12/8 now centering about 13555.5 with strong pulser [CODAR?] + random ditter QRM. At 1859, centers about 13556.3. Is it really drifting or is my ear? 1543, 10-Dec centers on 13556.6. Either his xmtr or my ear needs a new capacitor. This is possibly K4QVT in Stone Mountain. Tnx to Tom Root & Richard Zarczynski for digging this out. The FCC database shows KI4MTI as a cancelled call for the same person (Harold Frodge, Midland MI, USA, Drake R8B + 125 ft. bow-tie; 85 ft. RW & 180 ft. center-fed RW, All logged by my ears, on my receiver, in real time! DX LISTENING DIGEST)

13556.5, MTI Stone Mountain GA; 1613, 14-Dec; with chirp QRM; on 13555.5 at 1403, 15-Dec (Harold Frodge, M.A.R.E. DXpedition, Brighton MI, Drake R8B + 500' NEish unterminated bev + 85' TTFD, All logged by my ears, on my receiver, in real time! WORLD OF RADIO 1700, DX LISTENING DIGEST)

\*\* U S A. 660, Dec 16 at 1414 UT, I am standing by for KTNN Window Rock AZ to pop on as it should be changing to 50 kW non-direxional day pattern at 1415 in December --- but nothing shows, just remnant of KSKY The Metroplex which I have carefully nulled. By 1424, however, there is a slow SAH of 64/minute = 1.07 Hz, which may the source, if not Omaha or Williston (Glenn Hauser, OK, DX LISTENING DIGEST)

\*\* U S A. Talk Host News from Radio Insight: iThe New York Daily News is reporting that disgraced congressman Anthony Weiner is in negotiations to make the move to local talk radio. Suggesting Clear Channel's 710 WOR and Cumulus's 770 WABC as possible destinations, the Daily News states the program would air in a drivetime daypart. However, Politico adds that Cumulus denies it has had any interest in adding Weiner on WABC. Clear Channel's WOR will be adding Sean Hannity from WABC in afternoons on January 1, but will have a morning drive opening after John Gambling retires on December 20. Thanks to Shawn Axelrod & Bill Hale (NRC DX News Dec 16 via DXLD)



\*\* U S A. 900, Dec 12 at 1328 UT, 806-AC phone number chex with ``All-ag, all-day, KFLP`` ID, and Floydada TX weather, audible with Wichita nulled. Altho its December FCC sunrise is not until 1345, so should be either on nite power of 7 watts or PSRA of 3 watts to protect the mighty but seldom-heard XEW. Would you believe 250 watts day power already? How I miss the relay of KFLP formerly on local KOAG 1640, mostly talk, less adjacent splatter (Glenn Hauser, OK, DX LISTENING DIGEST)

\*\* U S A. 930, ALABAMA WGOL, Russellville. 1153 December 8, 2013. Classic C&W, quick live read ad for some store with Castol oil on sale, back to vocals, male "WGOL and (seemingly another set of calls - - maybe WKAX their sister but not supposedly not parallel sister station on 1500), Russellville-Huntsville" into unidentified network news, back to C&W from 1206. Fairly poor, overtaken by someone briefly with a garden show, then WLSS, Sarasota with one of those boring Sunday public service programs. 1000/40, I'll presume at 1000 even though a bit early to be.

Still more mined here:

930, TENNESSEE, WSEV, Sevierville. 1152-1205 December 12, 2013. Shocked to hear, and at near local level, the same long informercial loops for Great Smoky Mountains tourist attractions that I'd always hear when north of the Newfound Gap ridge and in the Gatlinburg/Pigeon Forge, TN area when hiking. It's WSEV, which for years has run this infomercial format. Tune-in to, "You're having fun with Smoky Mountains Radio,,,," then promotion for Wahoo Ziplines, Mentions of "The all new Smokies Welcome Center and Discovery Center" and the Mountain Dew Skybridge. "I'm Seth Evans, your voice of the Great Smoky Mountains..." Obviously still on day power 5000 watts. Completely dropped out at 1157, but back weaker from 1204 (Terry L Krueger, Clearwater, Florida, JRC NRD-535; JRC-NRD-515 (borrowed); ICOM IC-R75; Hammarlund HQ-180A; Sony ICF-7600GR; Sangean PR-D5; Aqua Guide 705 RDF Marine Radio; GE Superadio III; JPS NF-60 Notch Filter; JPS ANC-4 Noise Phase; 1 X roof dipole; 1 X room random wire; Terk Advantage non-active portable loop, DX LISTENING DIGEST)

\*\* U S A. 940, Dec 12 at 1330 UT, weather YL from KCCI channel ``8``, ``milder`` hi in the 20s, ID for ``KPSZ, Praise 940, Des Moines, Iowa's Christian station``, into gospel huxter, before fading down (Glenn Hauser, OK, DX LISTENING DIGEST)

\*\* U S A. 940, Dec 16, I start listening about 0652 UT, trying to stay awake, and revive at 0708 when some very slow Morse code is barely audible, best with LSB tuning on the DX-398. It stops before I can copy much, but I think an M, an A and an O. As in LIMA OHIO. It would

actually have been easier to copy a bit faster vs the QRM. Continue straining to hear anything from the scheduled WCIT Lima OH DX test, but the pileup is barely surpassed mostly by WMIX in IL, with 0710 YL song, 0712 ID ``WMIX, a service of --- Broadcasting``, `SCICTT` [Santa Claus Is Coming To Town].

Ending at 0713, some sweep tones: who but WCIT would send those? Keep listening until quit at 0725, but no more from WCIT, just Xmas music, probably more from WMIX; 0715 Jingle Bells, 0716 ad, 0718 `Merry Christmas from Nicole``, 0720 weather by YL. Despite this sparse info, I'm quite certain I was getting WCIT, and should match with what others heard. It's 250 watts directional only, NW-SE, which makes it an even better catch here to the WSW. There's no avoiding WMIX from here, very close to the same azimuth. City-to-city distance Lima-Enid is 802 statute miles = 1291 km. I'm now reporting this to mark@cmgroup.co and would appreciate QSL. BTW, I also publicized the test on WORLD OF RADIO 1699 (Glenn Hauser, Enid OK, DX LISTENING DIGEST)

940 WCIT: Heard nice sweep tones at 0205 ELT here near Reading, PA on my Tecsun PL-380. Some mixing with what sounded like WMIX. ñ (73, Mark Clark, Reinholds, PA, ABDX via DXLD)

Hi Guys: I am hearing the DX Test from 940 WCIT Lima, OHIO. Supposedly running 250 watts for this test. It's a NEW STATION for me; so happy with this one. Thanks to all for running the test!! Heard on a SONY SRF-T615 ULTRALIGHT Barefoot.

940, WCIT, Lima, OHIO, Dec/16/13, 0203-0212 EST, EE, FAIR. Heard under WMAC Macon, GA, which was TALK. First heard at 0203 with CW Morse code. Heard "WCIT" several times. There was more code but only got bits and pieces. Code till 0205 EST. Fast sweep tones at 0205 EST, back to code at 0206-10 EST. Again, only bits and pieces of code. More fast sweep tones at 0211-12 EST. Sweep tones really busted through the noise, better than the code did!!

NEW STN ULR #1064 Heard 250 Watts, 73 ROB VA3SW (Robert S. Ross, London, Ontario CANADA, ODXA via DXLD)

WCIT-940 test making it very nicely to Bowie, MD here tonight, (Monday morning 12/16) with loud morse code, university band music, sweep tones, and vocal information on test. Their 250 watt night power is NW/SE, so a good chunk right at me at 425 miles away from Lima, Ohio. Receiver: C-Crane, SM-2 Space Magnet Loop. Already sent Email report to station and also via their website. Their website feed doesn't match what's on the air on 940 at this time (Bob Wien, KG6RJW, Bowie, MD, IRCA via DXLD)

I had my doubts about hearing this test, since I've never heard a whisper from WCIT up until now, and they have a null in their day pattern towards me to protect Montreal - fortunately, it's not a really deep one. Checking my overnight recording, I was happy to see how well the test came through: solid copy on the Morse code, with virtually no fading, and even some voice came through.

Since timing info may be useful for someone who is still digging through recorded files: the first code segment ran from 0202:29 to 0204:40, and there was a voice announcement just before this. The first segment of sweeps ran for exactly one minute, starting at 0205:11. I haven't listened past the first ten minutes or so of the test, but if anyone needs more timing info, let me know. Many thanks to those involved in arranging this test for wiping my closest 940 unheard off the books! (Barry McLarnon, Ottawa, ON, *ibid.*)

E-QSL received Dec 17 from WCIT, 940 Lima OH, for their Dec 16 DX test. Uploaded to my gallery via:  
<http://www.worldofradio.com/QSL.html>  
291 kb, directly at:  
<http://www.w4uvh.net/WCITQSL.docx>

``Childers Media Group

To: Glenn Hauser

Enid, OK

This letter and QSL Card shall serve as written confirmation of your Reception Report received during our WCIT-AM, 940 Khz DX Listenerís Test on Monday, January 16th. Thanks for taking the time to listen in as we always welcome any reception reports.

Mark D. Gierhart, Engineering / IT Director``

Jan 16 was a slip; correct date on the card itself as Dec 16, 2013. Both this message and a full-data QSL card were in docx format and I could get a real card for an SASE. It includes their direxional NW/SE pattern, 250 watt power. Tnx, Mark (Glenn Hauser, DX LISTENING DIGEST)

WCIT-AM Test Website === Guys - you should have all received a verification letter by email; I also wanted to alert you of the website I built which shows you the results of the test. I will try and keep it updated:

<http://www.talkwithronwilliams.com/WCIT%20Listener%20Test.htm>

(Mark D. Gierhart (W8MDG), Engineering & IT, Childers Media Group - Lima, 57 Town Square, Lima, OH 45801, Dec 18, DX LISTENING DIGEST)

Nice, even displays each individual report and mileages. Evidently mine was the second most distant, a little closer than Winnipeg. Bruce Winkelman in Tulsa also heard it but not on this map (Glenn Hauser, Enid, DX LISTENING DIGEST)

Heard here in Tulsa on my overnite recording. 0105 Central 16DEC13 with faint sweep tones, stronger sweep tones 0112 and solid morse code ID at 0113. Not bad for 250 watts at 760 miles. This may be the most distant 250 watt station reception in my log (Bruce Winkelman AA5C0, Tulsa OK, WinRadio Excalibur, EndFedZ, SWL 43 foot sloper, NRC-AM via DXLD)

940, WCIT, OH, Lima, 12/16 0200 [EST] DX test heard with Morse Code IDs at about 0203. This was a HUGE surprise for me as 1 - I have never heard the station before and 2 - CJGX is a big signal here and dominates the frequency almost all the time. The Code IDs were heard under CJGX with its country music for a new one for me.

COMMENTS See never say never in this hobby as things don't always go the way you might think they will. Thanks for putting on the test; it was very much appreciated. 73 Best of DX, (Shawn Axelrod VE4DX1SMA, VEPC4SWL, Winnipeg MB, REMEMBER ON A CLEAR DAY YOU CAN HEAR FOREVER, NRC-AM via DXLD)

Mark, I really want to compliment you on the most professional DX Test that I can recall. Every aspect of the test was handled with a real respect towards DX'ers, from initial announcements, selection of test materials, timing, and especially the QSL process. I took my electronic QSL card yesterday to Staples and had it printed on card stock and laminated. Total cost \$1.49 cents.

And now the interactive maps and web site showing where the station was received. Such a simple idea, but so interesting to test participants. I ran the CPC DX Test office for NRC and IRCA for years, and I found myself thinking "Now, why didn't I think of that?".

Thank you for your effort and commitment to making the test a success. Wish we had a lot more engineers out there like you! 73, (Les Rayburn, N1LF, Maylene, AL, DX LISTENING DIGEST)

I second that and give the entire test effort - start to finish - the ol' Siskel & Ebert "2 Thumbs up" !! 73, (J. D. Stephens, Hampton Cove, AL, ibid.)

Absolute ditto on the response and locations map with comments. I have DXed in some form since early 60's but I haven't ever seen report and fun response like this one. Sometimes even no response or I need to prompt a second time for possible report. So, thanks again; well worth the 2:00 am wake up alarm I set (Dave Young, Reston, Virginia, ibid.)

\*\* U S A. 1010, KXEN, MO, St. Louis ñ Applies for an extension to its STA for U1 350/125 from an alternate site; the STA facilities have

been built but KXEN is still on the air with licensed U4 50000/500. The original sale of the land where KXEN's transmitter is located fell through, but the land is actively being marketed and KXEN could be ordered off the facilities at any time, so the STA at this point would be extended as a contingency plan if that occurs. And if there is a power outage at the licensed site, KXEN wants to use the STA facilities as a backup (AM Switch, NRC DX News Dec 23 via DXLD)

So that explains our still hearing it like it's 50 kW! Never really went on STA yet?? (gh, DXLD)

\*\* U S A. 1010, Dec 12 at 1333 UT, ESPN Radio with a survey whether collisions at home plate should be disallowed. Audible further clockwise than KXEN St Louis, so presumed KTNZ Amarillo TX, my closest 1010 in the other direction, which is now an ESPN clone. Its December FCC sunrise is not until 1345 for 5000 instead of 500 watts. It has no PSRA in deference to CBR. Day and night patterns look the same, with a minor lobe NE toward us, major lobe from NW to SW to SE. The other 1010 ESPN is WJXL Jaxsonvil FL, unlikely way out here despite its 50 kW (Glenn Hauser, OK, DX LISTENING DIGEST)

\*\* U S A. 1220, Dec 13 at 1336 UT, ``KRZK Newstime, 7:36`` after severe weather notice, and before Branson ad. Guess what, the 1220 station in Branson per NRC AM Log is KOMC, and // KOMC-FM on 100.1 (or is it 101.1?). So what's KRZK? Obviously inspired by ``Ozark``, altho in jumbled order. (KZRK is the 1550 TIS station in Branson, and unrelated KZRK-FM is on 107.9 in Canyon TX.) There is no KRZK (AM) call in the NRC Log cross-reference. A recent change? FCC AM Query does not have any KRZK on AM either. How about FM? Yes, 106.3 is KRZK and it's also jointly owned with KOMC. Would it be too much to ask for the proper callsign to be mentioned on 1220?

This is a productive DX frequency with none nearby and lots of little stations; earlier at 1332 I was hearing some religionist counterclockwise from KRZK (Glenn Hauser, OK, DX LISTENING DIGEST)

Hi Glenn, After reading the above, I had to investigate. I had a recent report due out in my next AM Switch segment that KOMC AM was no longer // FM and had switched to Salem Music Network's "Solid Gospel" Southern Gospel format. After talking with Toni, on the station's staff, I learned that the during times of severe weather they simulcast their stations to broadcast the severe weather warning as heard on News Talk KRZK to all their listeners. They had a foot of snow that weekend and did simulcast quite a few warnings, closings and other weather related items. 73 (Wayne Heinen, Editor NRC AM Radio Log, DX LISTENING DIGEST)

\*\* U S A. WKAL 1450 Rome NY DX test now --- (DX News Alert, Rome New

York) DX test for our European friends this weekend while Engineering test are still underway:

WKAL -AM 1450 is currently testing equipment, awaiting regular services to start soon. On Saturday 14 and Sunday 15, WKAL - AM 1450 will do morse code IDs on the TOH and BOH between 03:00 and 07:00 UTC. Each morse segment will last 5 minutes. Other program elements to listen for are Christmas music of the musical variety, piano type etc., and programs from The 1920s Radio Network. QSL request may be sent via email to WKAL (at) midatlanticengineeringservice.com QSLs will be returned via email.

Mid-Atlantic Engineering Service has its own facebook page here ----> <https://www.facebook.com/MidAtlanticEngineeringServiceOfNY>

Hopefully, the effects of the coronal hole will be delayed long enough to at least make it possible to hear WKAL in Europe on Saturday. Spread the word. Thanks goes out to:

From the world's northernmost DX-er  
Bjarne Mjelde, Arctic Norway  
kongsfjord.no  
arcticdx.blogspot.com for coordinating this event.

Bob Carter - KC4QLP - WQJK414

-----  
Mid-Atlantic- Engineering- Service of Utica NY  
<http://www.midatlanticengineeringservice.com>  
(via ABDX via gh, 0431 UT Dec 14, dxldyg via DXLD)

NRC AM Log says it had been silent since May 2013. Are they not interested in any reports from North America?? (gh) Several reports of it from the northeastern states, southeastern provinces (gh, DXLD)

WKAL heard last night --- Checked my overnight recordings, and it appears that the WKAL-1450 DX test did run, sort of. Nothing at all heard from them up until 0100 EST, but then there was a WKAL jingle and a voice announcement: "this is AM 1450 WKAL, Rome, New York. This is an engineering test broadcast. Stay tuned for the brand-new WKAL, starting very soon.". This was followed by an automated time and temperature announcement, and then instrumental music. No sign of any Morse code or other special test signals. The same thing appeared to be repeated at later TOHs (and the one BOH that I checked, 0130), at least until 0400 (I haven't checked later than that yet). Who knows what we'll get tonight; perhaps some code and an earlier start time, perhaps not. Worth a listen, anyway (Barry McLarnon Ottawa, ON, VE3JF, Dec 14, ABDX via DXLD)

WKAL-1450 DX Test On --- The WKAL test started on schedule at 2200 EST, with a continuously repeated Morse code sequence at around 10 wpm. It has ended now, and presumably will resume at 2230 EST for 5 minutes, and at half hour intervals thereafter (Barry McLarnon, Ottawa, ON, UT Dec 15, ibid.)

Not heard at 2200-2205 ELT, but heard rather faintly in the soup at 2302 ELT with bits of Morse Code. Loop was (and still is) pointed at about 75 degrees, which is right in the direction of Syracuse. Didn't give this one much of a chance. Needless to say, my best catch so far this season. :) 73, (Rick Dau, South Omaha, Nebraska, Kenwood R-5000 + Quantum QX Pro loop, ibid.)

Not heard here at the 0100 ELT test, but was heard twice during the evening, at 2302 ELT and 0001 ELT. Both receptions were faint, as you might imagine, but the 2302 was the slightly stronger of the two. Thank goodness for Morse Code, because it's the ONLY way I would have ever heard WKAL. Easily my best catch on MW from any QTH since getting the March 6, 1995 DX test of WKBR-1250 in New Hampshire while I was living in Iowa City. THANK YOU, BOB CARTER! :) 73, (Rick Dau, South Omaha, Nebraska, Kenwood R-5000 + Quantum QX Pro loop, Dec 15, ibid.)

1450, WKAL, Rome NY; 0300-0307+, 15-Dec; DX test; only a muddle there before 0300. CW started shortly after 0300, "WKAL AM 1450 Rome New York" easily heard thru the muddle. Xmas tune started at 0306:50. New (Harold Frodge, M.A.R.E. DXpedition, Brighton MI, Drake R8B + 500' NEish unterminated bev + 85' TTFD, All logged by my ears, on my receiver, in real time! DX LISTENING DIGEST)

WKAL 1450 DX Test was logged here in Central Alabama! At first, I thought my ears were playing tricks on me, but I reviewed the recording -- and there it was at 0401 UT. Slow CW and a partial voice ID in the first five minutes after TOH! My first GY from that far North! Thanks for all involved with the test! 73, (Les Rayburn, N1LF, 121 Mayfair Park, Maylene, AL 35114, EM63nf, Dec 15, IRCA via DXLD)

[IRCA] DX test heard in Scotland last night --- I heard the DX test on 1450 last night better at 0500 than 0400 [UT]; 0503 on 1451 CW mode on Perseus SDR, with beverage of 500 m:  
[http://www.dxarchive.com/mw/transatlantic\\_logs\\_december\\_2013.html](http://www.dxarchive.com/mw/transatlantic_logs_december_2013.html)

Also heard better at 0600 Monday 16th, and weaker around 0700. So yes, the CW getting through the noise. Will upload perseus screenshot a bit later.

Screenshots of WKAL dx tests --- I have just uploaded a couple of screenshots from Perseus of the 1450 DX tests, as well as another audio file on the following page..

[http://www.dxarchive.com/mw/transatlantic\\_logs\\_december\\_2013.html](http://www.dxarchive.com/mw/transatlantic_logs_december_2013.html)  
(Ken Baird, 16-17 Dec, IRCA via DXLD)

WKAL heard here in Troon, Scotland UK at 0505 UT on the 15th ---  
Recording: <http://share.cx.com/qNHcy5>  
(Paul Crankshaw, ibid.) Additionally it was heard today at 0601 (Paul Crankshaw, Dec 16, ibid.)

\*\* U S A. 1520, Dec 13 circa 0230 UT on caradio, heavy interference to KOKC OKC, also making considerable SAH. I asked, ``Some other talk station in English has really been tearing up 1520 KOKC here in OK last night and again tonight, but hard to null KOKC enough to get an ID. Any idea who's out of whack?``

Reply from Tom Jasinski, Joliet IL at 0427: ``It's KOLM "The Ticket" with sports - they are bombing in here now``. That's Rochester MN, and IIRC it's nothing new for them: NRC AM Log shows day, and critical hours, 10000 watts; night 800 watts, and PSRA of 11.5 watts. U8 = ND day, one direxional pattern night and another for CH (which should not be applicable at these hours). NRC Pattern Book 2013 is not set up to show more than two patterns, but 800 watts night is supposed to be direxional \*away\* from KOKC and me. Obviously it's really running 10 kW non-direxional now (Glenn Hauser, Enid, DX LISTENING DIGEST)

KOLM 1520 Minnesota owning 1520 here in NoVA, The Ticket! And Scott Ferrall. No sign of ESPN WWKB; a bit of KRHW 1520 MO and even KOKC. (George Santulli in Lovettsville, VA, 0604 UT 13 Dec, IRCA via DXLD)

1520, Dec 14 at 0050 UT, heavy CCI to KOKC, presumed KOLM Rochester MN, as IDed by Tom Jasinski last night, and also heard ``running hot`` by Kevin Redding in TN tonight for his first time. KOLM cheating on 10 kW N-D day pattern should be much clearer east of OKC with KOKC's westward coverage (Glenn Hauser, OK, DX LISTENING DIGEST)

\*\* U S A. 1660, KXOL, Brigham City UT, went silent on 20 November to investigate problems of isignal interference (via NRC's iDX News magazine via Nov-Dec NZ DX Times via DXLD)

KXOL 1660 Utah --- In tuning around tonight, even though KXOL is listed as silent, they still have left their carrier on. No IDs, so is that legal? I would not think so. Sounds like 1 kW. The carrier is there every night I go by 1660 (Patrick Martin, Seaside OR, UT Dec 18, IRCA mailing list via DXLD)

\*\* U S A. 1720 kHz pirate up now --- Seems to be a pirate up on 1720 khz AM mode right now with old time music and Pearl Harbor references. Faint signal into West Michigan. I'm hearing this at 0412 UT. 73, (Tim Tromp, [Muskegon] West Michigan, UT Dec 15, NRC DX-tip list via NRC-AM



via DXLD)

Sounds a lot like Radio Free Whatever that I heard on 6925 earlier in the evening. 73, (J.D. Stephens, Hampton Cove, AL, 0419 UT, ibid.)

I'm actually almost certain this is Dr. Benway and Undercover Radio. They have been heard on 1720 previously, and I just saw he is currently active on Google chat which indicates the station is probably on the air. You might try dropping him a line (Earl Higgins, 0420 UT, ibid.)

No signal detected here even using SUB/LSB using 2010 (Todd in Woodbury MN Skaine, 0425 UT Dec 15, Sony ICF 2010, Toyota car radio, ibid.)

Clear ID as Radio Free Whatever. Same broadcast as heard earlier on evening on shortwave 6925. 73 (J. D. Stephens, 0428 UT Dec 15, Sent from my iPod, ibid.)

The 1720 kHz pirate could not be heard at all, though I sure tried. Love logging TIS, beacons, pirates, and other "odd ball" stations on MW. I've even got five "Talking House" transmitters in my log on 1610. One was in Cullman, AL about 40 miles from here! 73, (Les Rayburn, N1LF, Maylene, AL 35114 EM63nf Dec 15, IRCA via DXLD)

\*\* U S A. 2980, WMPX, Midland MI; 2228, 11-Dec; Weak 2 x 1490 harmonic with EZL Xmas music // 1490. Nothing on 3x (Harold Frodge, Midland MI, USA, Drake R8B + 125 ft. bow-tie; 85 ft. RW & 180 ft. center-fed RW, All logged by my ears, on my receiver, in real time! DX LISTENING DIGEST) Is this harmonic there all the time for you? Can you hear it further way in Brighton? (Glenn Hauser, DXLD)

\*\* U S A. LIBERAL TALK RADIO DEAD IN LA; REPLACED BY RUSH  
<http://www.breitbart.com/Big-Journalism/2013/12/06/Liberal-Talk-Radio-Station-Flips-To-Rush-Sean>

KTLK has an much inferior signal. Although 50 kW day and 44 kW it has major nulls in a number of directions 24/7. KFI is strong everywhere (Dennis Gibosn, WB6TNB, Sent from my iPad, Dec 11, ABDX via DXLD)

Given that the source of that link is Breitbart.com (a very right-wing site), more needs to be said. The neutral websites and publications (those with no axe to grind nor favoritism for either liberal or conservative talk) note that Limbaugh's ratings are down and so are the advertising dollars he has been bringing in. Clear Channel is now taking him off of some big signal stations and moving him to lesser signals.

As for KTLK, it has been eliminating progressive/ liberal talk for several years, one show at a time. Most of the leftie hosts are finding other ways to distribute their programs -- Sirius XM channel 127 is one of them. And contrary to what the late Mr Breitbart and others assert, veteran leftie talkers like Stephanie Miller, Thom Hartmann, and Ed Schultz have been turning a profit for more than five years, and getting some very respectable numbers even though most have been relegated to the weakest AM signals companies like Clear Channel can offer them (Donna Halper, ibid.)

#### \*\* U S A. FCC IDENTIFIES MUTUALLY EXCLUSIVE LPFM GROUPS

Radio World - Dec 16, 2013

With lightning-fast speed, the FCC's Media Bureau has been processing applications for low-power FM stations. Of the some 2,800 applications received, ...

<http://www.radioworld.com/article/fcc-identifies-mutually-exclusive-lpfm-groups/222812>

#### FCC LOW POWER FM MX GROUPS: THE BIG ONES

Radio Survivor-by Matthew Lasar-2 hours ago

What I take from these snippets is that LPFM MX groups can be understood as clusters of applicants who having either applied for the same LPFM frequency or ...

<http://www.radiosurvivor.com/2013/12/17/fcc-low-power-fm-mx-groups-the-big-ones/>  
(both via Artie Bigley, DXLD)

\*\* VATICAN [non]. 7305, Dec 15 at 0206, pause, then instrumental music fill on electronic keyboard; 0208.5 pause and another; 0211 pause and yet another. Evidently, VR is \*still\* having problems getting its Spanish service to Latin America to and thru the Greenville relay! Supposedly still scheduled 0200-0245 daily (Glenn Hauser, OK, DX LISTENING DIGEST)

\*\* VATICAN. Recording of Radio Vatican DRM:

<http://nickvk2dx.blogspot.com.au/>

15535, R Tamazuj, Vatican, 14/12 1510, S9+20 Sudanese Station, ID mentioned. About Sudan. Question: is Radio Tamazuj transmitting from Vatican city? 73 (Nick VK2DX [Sydney] Hacko, NSW, dxldyg via DX LISTENING DIGEST)

NOT FROM VATICAN CITY, b u t from Vatican STATE transmitter site, some 30 kilometers northwesterly of Rome Italy.

<http://binged.it/1c4K0Kc>

Sponsored/brokered by Press Now, Netherlands; see SUDAN [non].

15535 Radio Tamazuj 1459-1529 daily Arabic/Sudanese 250kW 150deg

Santa Maria di Galeria CVA Vatican State PNW/FPU b13

15535 Radio Dabanga 1529-1627 daily Arabic/Sudanese 250kW 150deg  
Santa Maria di Galeria CVA Vatican State PNW/FPU b13  
(Wolfgang B,schel, dxldyg via DX LISTENING DIGEST)

\*\* WAKE ISLAND. K9W, WAKE ATOLL, PRESS RELEASE #7 (Dated December 9th): "The Wake Atoll Commemorative Team wants to thank the DX community for the outstanding response to 'The Forgotten 98 Commemorative DXpedition'. Also, we need to express our gratitude to our hosts on Wake, the United States Air Force. Our DXpedition was warmly welcomed and their support was invaluable.

The final QSO percentage per continent are Asia 32.3%, Europe 26.9%, NA 35.3%, OC 3.1%, SA 1.8% and AF 0.6%. The Team is extremely pleased to have distributed the QSOs to much needed parts of the world, especially EU which has the most difficult path to Wake Island. There were 53,765 CW, 38700 SSB and 7562 Digital QSOs.

The Team has uploaded all 100,000 plus QSOs into ClubLog and the printed QSLs are in transit to the QSL Manager, Joe, AA4NN. Most, if not all, corrections have been made to the Clublog upload. Please use <info@wake2013.org> for possible problems with the ClubLog upload. As mentioned on our website, the use of QQRS is highly recommended. It is an efficient and faster method for returning your QSL.  
<<http://wake2013.org/pages/qs1.html>>

Please support our Sponsors and the various worldwide DX Foundations and local clubs. Those contributions, as well as, your individual donations provided the necessary funding for this extremely expensive DXpedition. Without this unwavering assistance, Wake Island would still be high on the 'Most Wanted List'. All of us in the DX community owe them (and you) a hearty round of applause! Happy Holidays to all!  
-- 73, Lou N2TU and the Wake 2013 Commemorative Team" (Ohio/Penn DX Bulletin No. 1141, December 16, 2013, Editor Tedd Mirgliotta, KB8NW, Provided by BARF80.ORG (Cleveland, Ohio) via Dave Raycroft, ODXA yg via DXLD)

That's nice, but hrmpf, I bet it never crossed the mind of any of these guys for a microsecond, that while they were at it, for negligible additional expense, they could have put on a transmitter from Wake which would qualify as a SWBC station! It could have been just another ham-type unit, running automated and largely unattended while they were busy racking up the QSOs (Glenn Hauser, DX LISTENING DIGEST)

\*\* ZAMBIA. 5915, Zambia Nat., B.C.:  
Dec 10 1559-1611, 23332, vernacular, Fish eagle IS, Announce by man,

Repeated blows of the drum, Local music and talk.

Dec 15 1559-1607, 23432-22432, vernacular, Fish eagle IS, Repeated blows of the drum, Local music and talk (Kouji Hashimoto, JAPAN, RX, IC-R75, NRD-525+RD-9830, NRD-515, NRD-345, Satellite 750, DE-1121, ANT, 70m Sloper Wire, DX LISTENING DIGEST)

Nothing heard from Zimbabwe tonight, Zambia is loud and clear.

ZNBC1, 5915 Lusaka. Dec 15, 2013 Sunday. 1802-1810. News in English. ID at 1808, "ZNBC Lusaka". Good. Jo'burg sunset 1656.

Nothing heard from Zambia this morning. Zanzibar on 6015 is coming in as normal. ZNBC1, 5915 Lusaka. Dec 18, 2013 Wednesday. 0235-0402. AWOL. Jo'burg sunrise 0311 (Bill Bingham, Johannesburg RSA, dxldyg via DX LISTENING DIGEST)

[and non]. China. China Radio International, 5915 Kashi. Dec 19, 2013 Thursday. 0220-0235. Russian, mainly a YL talking against piano background. Mostly unreadable, no ID heard. Poor, and deteriorating. Jo'burg sunrise 0311 (Bill Bingham, Johannesburg RSA, dxldyg via DX LISTENING DIGEST)

ZNBC1, 5915 Lusaka. Dec 19, 2013 Thursday. \*0235-0259. Suddenly on with sine wave at \*0235. Fish eagles from 0243. Choir singing anthem at 0251. Morning greetings and prayer in Lozi at 0252, followed by talk and music/song. ID at 0258 iZNBC Radio One. Good. Start-up totally suppressed CRI. Jo'burg sunrise 0311 (Bill Bingham, Johannesburg RSA, dxldyg via DX LISTENING DIGEST)

\*\* ZANZIBAR. 11735, 1805, TANZANIA, ZBC, finally caught with an English news bulletin (possibly weekdays only) until 1809 when changed to Swahili and aired catchy song iZanzibar oh Zanzibar. Fair but annoying QRM from Turkey 11730 until 1823:30 closing - 20/11 (Bryan Clark at Mangawhai (Northland), North Island, New Zealand, with AOR7030+, EWEs to North, Central & South America, 100m BOG to NE and Alpha Delta Sloper antennas, Nov-Dec NZ DX Times via DXLD)

11735, Dec 13 at 2030, ZBC fair with flutter, nice Ungujan music and should have stuck with it, but by 2057 recheck considerably weaker, mixing music and talk, cut off at 2100:00\* sharp. This frequency is erratic, never know whether it will be on or not (Glenn Hauser, OK, DX LISTENING DIGEST)

\*\* ZIMBABWE. Voice of Zimbabwe, 999 Gweru. Dec 15, 2013 Sunday. 1750-1805. AWOL. Jo'burg sunset 1656.

Voice of Zimbabwe, 4828 Gweru. Dec 15, 2013 Sunday. 1750-1805. AWOL. Jo'burg sunset 1656.

Radio Zimbabwe, 6045 Gweru. Dec 15, 2013 Sunday. 1750-1805. AWOL.  
Jo'burg sunset 1656 (Bill Bingham, Johannesburg RSA, dxldyg via DX  
LISTENING DIGEST)

\*\* ZIMBABWE [non]. VOA ZIMBABWE ADDS TV WEBCAST --- WASHINGTON, D.C. -  
Fans of LiveTalk, VOA Zimbabwe's tri-lingual radio call-in show, can  
now watch the interactive program on an expanded one-hour TV webcast.

The first half hour of LiveTalk still airs on shortwave and medium  
wave Monday through Friday from 8:30 to 9 p.m. in Zimbabwe.

Online audiences will be able to watch an extended full hour edition  
of the program, which is captured with hi-definition cameras rolling  
in VOA's Washington studio. The program is streamed live on the VOA  
Zimbabwe website (in English, Shona and Ndebele) and is available on  
demand.

"The Zimbabwe Service has found a very effective and creative way to  
integrate TV into their lineup," says Africa Division Director Gwen  
Dillard. "Our audiences in Zimbabwe and throughout southern Africa and  
the diaspora have been asking for something like this, and we are  
pleased to be expanding to television."

LiveTalk hosts Blessing Zulu and Gibbs Dube introduce the day's news  
and take callers' questions in English, Ndebele, and Shona, with a mix  
of politics, sports, and social issues.

"LiveTalk has consistently had people waiting on the phone lines after  
30 minutes, so the TV simulcast will give our audience more of a  
chance to interact with us," says Zimbabwe Service Senior Editor Ray  
Choto.

The web audience will get a fly-on-the-wall experience of watching a  
live radio show, but Choto says the long-time radio audience won't be  
forgotten.

"We really want this to be a radio show on TV, in that radio audiences  
won't lose anything, but those who tune into the TV webcast will get a  
feel for what goes into a live radio call-in show," Choto says.

The first expanded edition of LiveTalk focused on the legacy of Nelson  
Mandela, and featured guests Dewa Mavhinga, a researcher at Human  
Rights Watch, and South African writer Raks Seakhoa, who spent time in  
prison with Mandela on Robben Island. Listeners from South Africa, the  
U.S., Zimbabwe, and other regions weighed in on the loss, and callers  
on the ground in Johannesburg painted a picture of a city still in  
mourning.

LiveTalk has been part of VOA Zimbabwe's (also known as Studio 7) lineup since 2010. The program airs in Zimbabwe and across southern Africa on shortwave and medium wave radio, and is also available online as well as live or on-demand over the phone for listeners in South Africa, the UK, and North America (VOA PR Dec 17 via Hansjoerg Biener, DXLD)

UNIDENTIFIED. 700, Dec 15 circa 0105 UT on caradio, romantic music in Spanish is dominant vs BKB from WLW, but fades of course before anything IDable. At 0121, home on DX-398 with WLW nulled, I'm hearing YL DJ mention ``40 principales``, in a long interview. Maybe just a passing reference to ``top 40``, rather than slogan ID as no such station is in any of the three major Mexican listings on 700 (Glenn Hauser, OK, DX LISTENING DIGEST)

UNIDENTIFIED. 2660+, Dec 12 at 1258 UT, JBA carrier, 1301-1305 trace of music; slightly on hi side compared to 1660 Waco et al. Offset frequency correlates with the harmonic I was hearing last winter, from KGLD Tyler TX, 2 x 1330, last logged March 12 (except maybe also June 10 at 0527). First time this winter I've managed to detect it vs the noise level, perhaps with a tiny pre-sunrise boost. Always a struggle to hear it (Glenn Hauser, OK, DX LISTENING DIGEST)

UNIDENTIFIED. Empty carrier was visible on 5014.872 kHz, but I guess couldn't be from Malagasy at this nighttime slot. Seen around 0108 UT (Wolfgang B, schel, wwdxc BC-DX TopNews Dec 15, dxldyg via DXLD)

UNIDENTIFIED. Does anyone know what DRM I could hear today, Dec 15, opening at 2113 on 6040? Had previously noted this on Dec 11 running to past 2302 tune-out. 73, (Martien Groot, Schoorl, Netherlands, dxldyg via DX LISTENING DIGEST)

[Later:] From a new entry in Aoki frequency list, it now appears that this is Radio Andernach, scheduled daily 2130 (2115?)-2315, from Nauen, in German (Martien Groot, Schoorl, Netherlands, ibid.) i.e. military service in encrypted DRM (gh)

UNIDENTIFIED. Subject: (bdx) 9070 kHz?  
Date: Tue, 17 Dec 2013 01:52:05 +0100  
From: Frank van Gerwen

Na enkele jaren frustratie wegens de stoorsluier, ben ik nu aan het "kijken" wat ik kan horen met de WebSDR van de Universiteit Twente. Leuk ding, moet ik toegeven, al is daar de achtergrond ook niet stoorloos... Op dit moment (00:50, en sedert  $\pm$  00:15 UT) hoor ik op 9070 kHz zeer zwak (vooral door de storing, het signaal is ongeveer S7) een zender met ondefinieerbare muziek (amusementsmuziek, maar ik kan er geen etiket op plakken) en met tussendoor een omroepster,

hoogstwaarschijnlijk in het Spaans. Ik kan alleen enkele woorden opvangen, dus ik heb geen flauw benul wat voor een zender het is. Iemand een idee? BVD. 73 de Frank (Frank van Gerwen, Bakkum-Noord / Netherlands, 52 33'56" N / 4 39'18" E, BDX luisteramateur list Dec 27 via DXLD)

[LATER:] De zender ging net vóór 0100 UT uit de lucht. Na wat gesproken tekst, nu ook met een mannenstem, kwam er nog wat muziek, dat abrupt onderbroken werd doordat de draaggolf verdween. 73 de (Frank, ibid.)

Het klonk helemaal niet als een piraat: rustige aan-/afkondigingen en goede modulatie (voorzover als met de storing te horen was). Er was ook niet veel fading, dus ik dacht eigenlijk een beetje aan Zuid-Spanje of Noord-Afrika. Een harmonische of spiegelrequentie kon ik ook niet bedenken. Ik zit nu weer te luisteren op die frequentie, maar er is nog geen draaggolf of wat dan ook te bespeuren, maar het is dan ook nog vroeg, vergeleken met gisteren.. Ik heb nu TotalRecorder meelopen, dus als er iets komt, neem ik het automatisch op. Ik heb dat programma zo ingesteld dat het de laatste 10 minuten audio automatisch bewaart. Zodra ik dan iets hoor, druk ik op de opnameknop en dan loopt de opname verder door. Hopelijk komt er weer iets en is de ontvangst wat duidelijker. Dan hoor je het wel van me! Groetjes, P.S.: Ik kon ook nergens iets vinden voor 9070 kHz (Frank, ibid.)

Could this be one of those ``not really there`` signals that the WebSDR produces, or can anyone hear it today on their own receiver?

In the Benelux DX list, Google translation from Dutch, from yesterday:

After several years of frustration due to the interference veil, I am now on the "look". I can hear the WebSDR of the University of Twente. Fun thing, I must admit, though they do not disturb the background charge. At this time (0050 and 0015 UT ± since) I hear on 9070 kHz very weak (especially the interference, the signal is about S7) a transmitter with indefinable music (popular music, but I can not label slices) and in between a announcer, probably in Spanish. I can only catch a few words, so I have no idea what a channel is. Anyone have an idea ? BVD 73 Frank

The station was just before 0100 UT out of the air. After some narration, now with a man's voice, there was some music that was abruptly interrupted by the carrier disappeared. 73 Frank

from today Tuesday after 2200:

It did not sound like a pirate : aan-/afkondigingen quiet and good modulation (as far as was told by the fault). There was not much

fading, so I actually thought a bit of Southern Spain and North Africa. A harmonic frequency or mirror I could not even imagine. I'm listening on that frequency, but now there is no carrier or whatever to be seen, but it is too early, compared to yesterday. I now walk with Total Recorder, so if anything comes up, I take it automatically. I have the program set up so that it saves the last 10 minutes of audio automatically. As soon as I hear anything, I press the record button and then the recording runs further. Hopefully there will be something, and is receiving a bit clearer. Then you hear it from me! Greetings, Frank (via DXLD)

Nothing heard at 2310 UT on this range. The given 9070 kHz doesn't fit with the Egyptian intermodulation with MW Abis 774 kHz. Heard only digital STANAG signal on range 9095.3 to 9098.5 two ORTH hopping signals in action, a smaller ?spurious? one on 9165 to 9169 kHz, and full power on 9185 to 9214.5 kHz range, S=9 in western Europe.

Despite of 1-2 small UTE RTTY stns in between, the next occupied channel logged here in EUR is WINB US religious station 9264.958 kHz at 2320 UT Dec 17. 73 wb (Wolfgang B, schel, DX LISTENING DIGEST)

UNIDENTIFIED [non]. De zender kwam om 2357 in de lucht met van die moderne muziek waarvan je soms autodaken rhythmisch ziet opbollen. En om 0000 UT het IS en de identificatie: "Esta es Radio Internacional de China", gevolgd door een nieuwsbulletin. Het signaal is ongeveer S8 en is beter te verstaan dan gisteren. Vreemd genoeg hoor ik gespetter alsof er een sterke zender naast zit, maar ik kan die niet vinden... Een relay van een andere zender? 73 de Frank

Another report from Frank today UT Dec 17-18, translated:

``The station came at 2357 in the air bulge with those modern music that you sometimes see rhythmic car roofs. And at 0000 UT the IS and identification: "...sta es Radio Internacional de China'', followed by a news signal S8 is about and to understand better than yesterday. Oddly enough, I hear splashing like a strong station is next, but I can not find it. A relay from another station? 73 Frank'' (Frank Van Gerwen, Netherlands, BDX via DXLD)

OK, what frequencies is Spanish from CRI supposed to be on?

Comprehensive sked in DXLD 13-49 shows QVC = Cuba on 5990 and 15120;  
0000-0057 on 5990 QVC 250 kW / non-dir to CeAm Spanish  
0000-0057 on 15120 QVC 250 kW / 160 deg to SoAm Spanish

and, the only other ones are KAS = Kashgar, East Turkistan, on 9590 and 9800.

0000-0057 on 9590 KAS 500 kW / 269 deg to SoAm Spanish



0000-0057 on 9800 KAS 500 kW / 269 deg to SoAm Spanish

Neither pair could produce a mix on 9070. However, an unheard mix frequency could be in some other language from same site. And here is the answer, exactly the same antenna beam too:

0000-0057 on 9435 KAS 500 kW / 269 deg to SoAm Portuguese

9435 is halfway between 9800 and 9070; therefore, 9070 is a leapfrog mixing product of 9800 over 9435 landing another 265 kHz lower on 9070. As usual, the language on the further one is heard on the spur rather than the language on the fulcrum. Another formula for this is  $2A \text{ minus } B$  ( $9435 \times 2 = 18870$ , minus  $9800 = 9070$ ) (Glenn Hauser, WORLD OF RADIO 1700, DX LISTENING DIGEST)

This is the solution! Thanks, Glenn. Greetings, (Ton Timmerman, BDX via DXLD)

UNIDENTIFIED. UNKNOWNIA: 9920, 1211, 15-Dec; English huxter plus siren jammer, LSB cuts out the jammer. No candidates found for the English in 12/16 Aoki or 12/14 EiBi (Harold Frodge, M.A.R.E. DXpedition, Brighton MI, Drake R8B + 500' NEish unterminated bev + 85' TTFD, All logged by my ears, on my receiver, in real time! DX LISTENING DIGEST)

UNIDENTIFIED. Presumably same TX [as 21570, q.v.] testing with tone only on 11640 and then when retuned on 11650 around 1730-1745 UTC 16 December. Strong signals into WCNA (Bob LaRose W6ACU San Diego, CA, DX LISTENING DIGEST)

UNIDENTIFIED. Station in strange language: 1451-1529 [Dec 12] on 11744.0, SINPO 45544 in Sofia, Indian music. Man talk about Kashmir, Iran Pakistan, Hindustan, Balochistan and etc. (Ivo Ivanov, QTH: Sofia, Bulgaria, DX LISTENING DIGEST) SEE GOA

UNIDENTIFIED. 13660, Dec 18 at 1406, hear BaBcoCk music as I tune by, fair signal with flutter, and staying with it, soon hear bits of other music, including steel drums, sitar, accordion, guitar, interspersed with announcements, ``You are listening to a test transmission`` and ``please report to transmittertest@gmail.com`` Turns out to be a 3-minute loop, and is cut off abruptly at 1421:18\*. It's probably from Woofferton UK, perhaps for staff training purposes, as previously revealed; would it be too much trouble to mention the site in the loop announcements? Recheck at 1434, now 13660 has a tone test with intermittence plus some hum (Glenn Hauser, OK, DX LISTENING DIGEST)

UNIDENTIFIED. Amigos, a propagação em OC tem sido boa permitindo-me fazer algumas interessantes escutas. Hoje pude ouvir uma emissora em 15515 kHz, às 1126 horas UT. Na lista HFCC para o período B13 tem

alguma coisa, mas n,,o d· para saber qual a emissora ouvida por mim.  
Algu m sabe qual a emissora que ouvi? 73! (Rubens Ferraz Pedroso (PY5-007 SWL). Bandeirantes - PR, Receptor: Degen DE1103. Antena: RC3-FM, RADIOESCUTAS yg via DXLD)

UNIDENTIFIED. 17515, Dec 15 at 1349, 1 kHz tone test, poor with flutter, off at 1353.

21570, Dec 15 at 1434, same 1 kHz tone test, fair with flutter until 1458\*.

Are these sporadic tests again of some new site or transmitters in the Middle East? HFCC on 21570 lists Spain at 08-17, but it's certainly wooden, and nothing else after Romania at 12-13. 17515, nothing before Nauen at 16-1930 (Glenn Hauser, OK, DX LISTENING DIGEST)

21570, 15/Dez 1445, UNID. Signal of 1 kHz. Also in the SDR Twente Looks like with the same intensity of the signal in my QTH. Still in the air at 1454 (Jorge Freitas, Feira de Santana, Bahia, 12 14 S 38 58 W - Brasil, dxldyg via DX LISTENING DIGEST)

I was also hearing this, went off at 1458\*. With flutter, suspected Mideast location. Same tone was on 17515 earlier at 1349-1353\*, weaker. HFCC has 21570 with Noblejas at 08-17, but has been wooden, unlikely; also Romania at 12-13. 17515 nothing until Nauen at 1600-1930 (Glenn Hauser, ibid.)

The signal was weak in SDR Twente. The signal came back and leave after the 1458 without the 1 kHz tone. The last signal detected was the 1506, in SDR Twente (Freitas, ibid.)

UNIDENTIFIED. 21570, 15/Dez 1445, UNID. Signal [tone] of 1 kHz. Also in the SDR Twente. Looks like with the same intensity of the signal in my QTH. At 1458 without the 1 kHz signal and soon after the signal goes off the air. At 1501 back the carrier and at 1502 goes off the air. At 1504 back, Only the signal with the carrier. 73 (Jorge Freitas, Feira de Santana, Bahia, 12 14 S 38 58 W - Brasil, dxldyg via DX LISTENING DIGEST) see also UNIDENTIFIED 11640 above

~~~~~  
UNSOLICITED TESTIMONIALS

+++++

ACKNOWLEDGED ON WORLD OF RADIO 1700:

Life without World of Radio and DXLD would be weary, stale, flat, unprofitable, and a drag (Gerald T. Pollard, NC, with a solstitial check to P O Box 1684, Enid OK 73702)

One may also contribute via PayPal, not necessarily in US funds, to woradio at yahoo.com

Congratulations on your 1700 show I go back to the WRNO Worldwide days on 6185 kHz, Best of luck on your 1700 show (Richard Lemke, St. Albert, Alberta. Canada, Dec 18, 2013, WORLD OF RADIO 1700, DX LISTENING DIGEST)

#### TO BE ACKNOWLEDGED FUTURELY

Glenn, Thanks for 1700 World of Radio programs and Happy Winter Solstice. Cheers, (Martin Gallas Springfield IL with a contribution via PayPal to woradio at yahoo.com)

Thanks Glenn for your continuing very hard and thorough work with WoR! (Steve McGreevy - N6NKS with a contribution via PayPal)

#### PUBLICATIONS

+++++

BROADCASTS IN ENGLISH, from British DX Club, B-13 November-March

Very handy 32-page booklet, to keep next to the radio regardless of computers, main 18-page section of which is comprehensive schedule by time of all B-13 SW broadcasts in English, including sites with each frequency (key on another page), target areas.

Also: Music on SW, by time, 3 pages, selected by Alan Roe

Broadcasts in English Available Online: 1 page by country, of live 24-hour streaming; Streaming at Scheduled Times, by time, 2+ pages; Programs on Demand, <1 page.

DX, Media & Mailbag Programmes, on SW, by day and time, 2 pages

World Radio Network, three separate schedules, of English to NAM, Africa/Asia/Pacific, and Europe; on satellite, internet, 3 pages

While stocks last, copies available for prices including postage:

UK: 3 pounds,

Europe: 4 pounds or 5 Euro or 6 US\$ or 5 IRCs

Rest of world airmail: 5 pounds, or 7 US\$ or 6 IRCs

PDF copy also available at UK price; <http://www.bdx.org.uk>

British DX Club, 10 Hemdean Hill, Caversham, Reading RG4 7SB, UK  
(Glenn Hauser, DX LISTENING DIGEST)

WRTH 2014 review

<http://medxr.blogspot.com.au/2013/12/wrth-2014-ten-reasons-why-you-need-this.html>  
Cheers, (Rob VK3BVW WagneR, Dec 14, ARDXC mailing list via DXLD)

I keep getting ``unresponsive script`` warnings from his site (gh,  
DXLD) Then: Refers to ``the morphing of WRMI into WYFR.`` Huh???

#### HISTORIC CALLSIGN SEARCH

WRJM returned to its historic callsign (WEIC, I believe) just before  
going silent. The call change went through last week.

A useful resource in a situation like this is

<http://FCCInfo.com>

There's a "historic callsign" search box, second from the top, that  
shows every station that's used that callsign in the 30+ years that  
the FCC CDBS database has existed (give or take a short period in the  
1980s when callsign changes apparently were never imported into CDBS  
from the old paper files.)

Popping "WRJM" into that search field shows four stations that have  
used that call, the most recent of which is the Charleston IL 1270  
that's now WEIC. s (Scott Fybush, NY, ABDX via DXLD)

#### "D" Magazine piece GUIDE TO DALLAS AM RADIO

Glenn: -- You really should have this

<http://www.dmagazine.com/publications/d-magazine/2014/january/guide-to-dallas-am-radio>

(Greg Hardison, CA, DX LISTENING DIGEST)

#### HF BEACON INFO

I use a number of sources for beacon locations. My main one is:

<http://www.qsl.net/wj5o/bcn.htm>

Bill Hays is the keeper of the list and runs the 28289 beacon WJ50 out  
of Troy, AL. He is considered to the U.S. guru on 10-m beacons, and I  
believe that he is the unofficial coordinator of U.S. 10-m beacons.

Another list that I use for locations is: G3USF's Worldwide List of HF  
Beacons

<http://www.keele.ac.uk/depts/por/28.htm>

This list includes all HF beacons and is kept up to date. A last one  
that I use is a list by DL8XW

[http://www.mydarc.de/dl8wx/baken\\_kw.htm](http://www.mydarc.de/dl8wx/baken_kw.htm)

Currently, this list is down for repair?? (Dave Tomasko, MARE Tipsheet  
14 Dec via DXLD)

<http://www.lwca.org/sitepage/part15/beaconsmfhf.html>

(Marc Kulbacki, ibid.)

## DX-PEDITIONS

+++++

### DXPEDITION TO CHINA IN NOVEMBER

Dear Glenn, Your work with WoR is par-excellent as usual! I wish to announce to readers of WoR of a trip to tour/of China I did between 03 - 20 November 2013.

I made it into a DXpedition, having brought along three portable radios - the best one being my Sony ICF-SW7600GR, I did a good amount of band-scanning and DXing whilst in the hotel rooms by the window, and on the deck of my stateroom on the Century Legend Yangtze River cruise-ship.

After the trip, and recovering from a very bad flu, I did manage to do some online uploading of a new web-site I made of audio recordings of mediumwave, longwave, some shortwave (mainly 49m comparing that band to same time here in Calif., but also some very interesting daytime scans on 49m and 40m - remarkably filled-up with SWBC stations compared to here in North America), wild Asian CB-skip on 27.005 MHz, etc. (on the Yangtze River ship), and so forth.

The 27 MHz CB-band during the daylight hours on the Yangtze River was quite jammed-up, remarkably - all Asian language chat - some FM on 27.185 mixed with the AM signals.

The address at Internet Archives for the MP3 audio files (over 30 of them) is at:

<https://archive.org/details/MediumwaveDXpeditiontoChina>

I think you all will be quite amazed at how busy the AM/MW broadcast-band (on 9 kHz-spaced channels) are at night in China - from Beijing, the rural areas along the Yangtze River, to Hong Kong (where I could hear a handful of Philippine Island AM stations at night).

The 164 kHz Mongolia longwave station (500 kW) sign-on at 0600 China Standard Time was very nice - good signals mostly everywhere I went - the best reception of the lovely 164 Mongolia 2200 UT sign-on was on the top sun-deck of the Century Legend Yangtze River cruise ship the last morning on it while docked in Chongqing, China on the Yangtze River - very strong just on my Sony ICF-SW7600GR and no noise.

In Shanghai, China (November 10-11th, 2013) - up on the 42nd floor of the Longmont Shanghai hotel, I could null the noise by the window looking northward, and the NDB band was FULL!

Somehow, DXing from high above the ground - maybe an effect from the building too, was extraordinarily strong signals on longwave - in China, the NDB band does not stop at 430 kHz - you will hear beacons (all 1020 Hz ident) between 430 and 510 kHz too. It was quite easy to hear the Radio Rossii longwave stations on 153, 180, 189, 234, and 279 kHz all night (just like on some good mornings in California).

The audio files on the Internet Archives page are all narrated as though you were alongside me while I did the bandscan recordings - soe just scanning around with brief-stops and many frequencies, to sitting on an interesting frequency. Several AM/MW frequencies - all very filled-up at night in China, has stragge-sounding multiple "echo" effects from all of the networked MW stations running the same programming but NOT at the exact time, hence the weird echo effects!

The site again is:

<https://archive.org/details/MediumwaveDXpeditiontoChina>

Kindest thanks for running this announcement - I hope and feel readers and fellow DXers will be amazed to hear my receptions!

PS - Oh, very unlike Europe on their 9-kHz spaced channels, Chinese stations modulate much louder - similar to North America - some of them even so badly to splatter 20 kHz away! Happily, NO digital radio hash in Asia (yet) on the MW/AM band. -s- <http://www.auroralchorus.com> 73 (Steve McGreevy - N6NKS, Dec 13, DX LISTENING DIGEST)

Steve, Thanks for your kind remarks and for making this extensive report. I haven't had time to listen to much of it, but have now posted your announcement on the DXLD yg so everyone can get to it, before it appears in the next DXLD. Wish I could on such a trip! (Glenn to Steve, via DXLD)

Hi Glenn, Hey Thanks so much! The trip was pretty incredible - pics and pointer-links to the China DX audio on Internet Archives are at this address on my DXing/VLF-radio site:  
<http://www.auroralchorus.com/china.htm>

My father got me the trip back in March for turning 50! I never thought I'd ever get there in my life.

The most strange and interesting thing DXing there were the "semi-synchros" on several-tens of MW channels in China - often up to 5 or 6 stations - not synched-up in timing either on their audio or carriers - hence a lot of strange-sounding, weird "echoes" all over the MW-BCB there at night.

For example, 1143 kHz seemed to be the "Chinese Opera-echo channel" at

night, everywhere I went, with two dominating stations barely playing Chinese Opera on 1143, but almost ONE SECOND apart in audio-synch, making for really strange echo-effect. Kindest thanks again, Glenn (Steve McGreevy)

#### CONVENTIONS & CONFERENCES +++++

#### REGISTRATION OPEN FOR 27TH ANNUAL WINTER SWL FESTIVAL

Posted on December 17, 2013 by Thomas [Witherspoon?]

It's time to register! The Winter SWL Fest dates and location have been set for 2014:

Richard Cuff and John Figliozi, co-chairs of the Winter SWL Festival, are pleased to announce that arrangements are now set for the 27th (!) Annual Winter SWL Festival, scheduled for March 14th and 15th at the Doubletree Guest Suites Philadelphia West, in Plymouth Meeting, Pennsylvania. Early registration fees will remain as they were in 2013 through the month of January, as an incentive to register early. We strongly urge you to do so as fees will increase for those registering February 1 and later. Single and double rooms are available at a special \$99 rate, including breakfast; the event code and online hotel reservation capability will be posted in a few days. The special \$99 hotel rate may not be available after February 14th, so it's best to book early. Links to paper and online registration for the Fest will be posted in a couple days via the Fest website at <http://www.swlfest.com/>

Those without web access will find a registration form in the January issue of the NASWA Journal; the registration form can also be obtained by sending a self-addressed, stamped envelope to Winter SWL Fest, PO Box 3292, Allentown, PA 18106

If you've never been to the SWL fest, check out this post for an overview. You will not find a larger gathering of shortwave radio enthusiasts in North America. I attend every year. Come join us!

<http://swling.com/blog/2013/12/registration-open-for-27th-annual-winter-swl-festival/>  
(via Mike Terry, Dec 17, dxldyg via DXLD)

Sadly I doubt that I will ever get to this annual event as I live 3,500 miles away, it looks a load of fun - have a great time guys - (Mike Terry, ibid.)

EDXC CONFERENCE 2014

The European DX Council has decided to hold its next Conference on Sep 19-22, 2014 in the Nice area of France organized by DSWCI-member Christian Ghibaudo.

Instead of having the conference in Nice only, we would like to have it in two places as has been a practise already earlier. The first part of the conference is planned to be held in Tende, a small village approximately 80 km northeast from Nice. Tende can quite easily be reached for instance by train from Nice. In addition, having the conference in Tende we can keep the costs and conference package fees lower. We shouldn't forget that we DXers are always interested to hear / see something extra and unknown. That is why we would like to propose you this alternative.

The "first and absolutely preliminary programme" could be as follows

Friday, 19 September 2014

- starting 1400 local time arrival in Tende & check in at the hotel
- 1700 EDXC conference check in starts
- 1830-2000: Opening of the conference, some lectures and presentations
- 2000 Dinner on your own

Saturday, 20 September 2014

- 0700-0900 Breakfast
  - 0930-1230 EDXC programme
  - 1230-1400 Lunch
  - 1400-1600 A tour in Tende
  - 1630-1830 Woody Allen's film "Radio Days" from 1987.
  - 1900 Banquet at the hotel
- (Maybe we could have our banquet in Nice on Sunday)

Sunday, 21 September 2014

- 0730-0930 Breakfast
- 1100 Check out from the hotel + the Excursion "Visiting three countries in one day" via Italy (Ventimiglia?) and Monaco, including visit to Prince Albert II's palace on the Rock, to Nice & lunch in one of the places to be visited during the day.
- 1800-1900 Arrival in Nice, check in at the hotel
- Dinner (or Banquet?)

Monday, 22 September 2014

- 0700-0930 Breakfast
  - 1000-1500 Excursion in Nice with possible visits at radio stations, incl. Monte Carlo Radiodiffusion at Col de la Madone.
  - 1500 End of the conference.
- (Kari Kivekaes, Finland, EDXC SG, and Christian Ghibaudo, France, BCDX



13 Dec via DXLD)

LANGUAGE LESSONS  
+++++

## BILLIONS AND BILLIONS

RE 13-50: ``Hi Kai. In British English, billion has for many years meant "thousand million", as it does elsewhere. The previous usage to mean "million million" is now very outdated indeed - many/most Brits now wouldn't even know that it once existed. Similarly, milliard which was once used in Britain (as in France) to mean "thousand million", is now defunct here. Chris``

Although a "billion" is now broadly accepted as the term for 1,000,000,000, the BBCWS commonly used "thousand million" until the early 1990's, when they finally gave in to the more common worldwide usage. Never heard the BBC use "milliard", however. That usage might have faded before WWII, if not earlier (Steve Luce, Houston, Texas, dxldyg via DX LISTENING DIGEST)

In Denmark we use MILLARD, = a thousand millions, and my 1995 dictionary says: common now in the US and in Britain is 'billion'. The DANISH billion, a million millions, is translated into 'a billion' with this note: Billion is also used in British English as 'a milliard'. In US English = a trillion. But what is now a 'DANISH billion' in English? Also a billion, or a trillion as in the US? Confused? 73, (Erik Koie, Copenhagen, ibid.)

Not only Denmark, but tens of other countries. See:  
[http://en.wikipedia.org/wiki/Long\\_and\\_short\\_scales](http://en.wikipedia.org/wiki/Long_and_short_scales)  
73, (Mauno Ritola, ibid.)

That's very interesting stuff with long and short scales. What prompted my remark is what my dictionary, published in 1991, for "Milliarde" gives: "Br thousand millions pl, Am billion". One would not guess what's in fact behind this difference (Kai Ludwig, Germany, ibid.)

Thanks for wiki-link. I was about to post about "billiards" ( $10^{15}$ ), and "trilliards" ( $10^{21}$ ) that I remember from my high-school days as "proper" English numerics. My 1986 printing (7th ed.) of the Pocket-Oxford Dictionary does not contain either word, though I'm fairly certain my Webster's Unabridged from the early 70's did contain both words. Interesting (Paul S. in CT, ibid.)

So even more reason to avoid any meddling of English and German in the field of numbers. In German also the meaning of . and , is reversed.

Some people think it does not matter and write down or speak out FM frequencies with a dot instead of the correct way that goes "104.4 MHz" and is considered not hip and cool. Now I see even more reason for urging people to not even start this and avoid the risk of ending up in complete confusion (Kai Ludwig, *ibid.*)

No, the dot is the correct way, just look at any scientific journal; in prose it is also confusing to have a comma in the middle of a number. All this confusion is needless, if everyone used scientific notation, kilo-, mega-, giga-, tera-, etc. whose powers of 10 are indisputable (Glenn Hauser, DXLD)

Comment is free

The 'fake' Mandela memorial interpreter said it all. He claimed an 'attack of schizophrenia' rendered his signing unintelligible, but his performance translated an underlying truth  
<http://www.theguardian.com/commentisfree/2013/dec/16/fake-mandela-memorial-interpreter-schizophrenia-signing>  
(via Des Preston, DXLD)

DIGITAL BROADCASTING --- DRM See also ERITREA; GERMANY; INDIA; MALI;  
++++ MYANMAR; NEW ZEALAND; NIGERIA; RUSSIA;  
TURKEY; UAE; VATICAN

INTERVIEW: RUXANDRA OBREJA FROM DIGITAL RADIO MONDIALE  
September 23 --- Great article about DRM - we of course are excited to see Asia take off with it. [asiaradiotoday.com](http://asiaradiotoday.com)

August 28, 2013 ARCHIVE, India, PEOPLE, TECHNOLOGY

Several Asian governments, including Thailand and Vietnam, are set to decide in the next year or two which digital radio standard they will adopt.

At first glance, the Digital Audio Broadcasting (DAB) platform (including successor DAB+) may be most likely because of its popularity elsewhere as an FM replacement (In the UK, 16 million DAB sets have been sold).

But the consortium behind another standard, Digital Radio Mondiale (DRM), predicts that multiple platforms will be adopted in many Asian countries, especially where DAB is uneconomical for all radio players.

Previously thought of as a replacement shortwave service ñ some experts see DRM+, which works on VHF bands including FM, as more reliable and cost-effective.

Asia Radio Today spoke to Ruxandra Obreja, Chair of the Digital Radio Mondiale consortium.

Can you start by telling us more about DRM technology?

DRM has one standard for all radio bands. On the lower bands (SW/MW/LW), it is called DRM30. For all VHF bands including FM, it is called DRM+. But it is the same standard.

DRM is fairly new to the VHF or FM bands ñ we were accepted and recommended by the ITU in 2011. But this is our opportunity to tell everyone that DRM can now do all the bands.

Are you worried that the likes of the BBC and Deutsche Welle have moved away from shortwave broadcasting?

Yes you're right, the interest in the lower frequency bands has reduced somewhat recently because the large international broadcasters are moving away from shortwave. But there are several countries, the BRICs countries of Russia, China, India and Brazil, as well as others in Asia Pacific that have huge networks of medium wave (AM) services and huge areas to cover and these areas could never be covered by DAB or the US system HD Radio.

So people are very much considering DRM. What we recognise now is that there isn't one solution for everybody. Some years back, people thought there was a battle of the standards. But I don't think that is the case. Different countries will adopt different standards or different combinations of standards depending on a number of factors.

So how will digital radio take hold globally?

We believe this will happen with a fusion born at the level of the chipset and the receiver. Already chipset manufacturers are putting more than one digital radio standard on their boards, to ensure that receivers can offer more than one standard and will work in all countries. No radio manufacturer, no car manufacturer wants to build separate sets for different countries. So as soon as that happens on a much larger scale, DRM will take off.

Where do you think that DRM will be strongest?

I believe DRM 30 (SW/MW/LW) will be strongest in Asia. We already see DRM being adopted in India. We also see DRM transmitters popping up in Bangladesh, Japan, Uzbekistan and South Korea.

Malaysia has DRM transmitters for its medium wave (AM) service. Taiwan has just announced it is remodelling its shortwave capability with

DRM.

We also a great interest from Brazil which is considering DRM and HD radio. If we are chosen, it will unlock the whole of Latin America. Russia has adopted DRM and is doing a lot of development on DRM 30.

Letís say this, if you want to go digital on MW or SW, there is no other option, there is only DRM.

We also see our higher frequency service DRM+ complementing DAB+ where that has been chosen ñ like in Europe for example ñ where a number of smaller radio groups say they wonít be able to afford to join big national DAB+ multiplexes but DRM+ will be affordable.

Why do you think the roll-out of digital radio hasnít happened faster?

A few years ago, people believed you would switch on digital and, a few years later, switch off analogue. But it will take time. Unlike mobile phones which were a completely new technology. There is a legacy issue with radio because of the sheer number of analogue radio sets in the market. There is a conversion exercise that needs to take place but that wonít happen overnight.

But there is no way radio will stay analogue in any country. The roll-out is dependent on having the right infrastructure, digital receiver manufacturers who will ramp up production and then the content on digital has to be convincing enough to make listeners want to give up their analogue radios.

Indiaís public broadcaster All India Radio (AIR) has committed to DRM. Does this have the potential to really change the radio game in India? When private FM radio was launched a decade ago, it left left AIR looking a little out of date. DRM could help them stay relevant.

Yes thatís true, the private FM players have been very successful. But it is important to note that AIR remains extremely popular. It is the only radio service which can run news bulletins, and it has extensive dialect programming which is hugely important.

Remember, FM is only available in big cities at the moment. Even when phase III of private FM licensing takes place, FM will still only be available to just under half of Indiaís population. So there is still a huge desire for radio that still needs to be satisfied.

DRM could really revolutionise radio listening in India and there is no reason why commercial radio couldnít be on DRM as well. We hope that once there is a network in place, there will be nothing stopping commercial radio from sharing that space with the public broadcaster.

But this is a huge investment for the Indian government. Are you confident it will happen?

The investment is being made, the money is committed, the tenders are out and the transmitters are starting to arrive in India. In fact, DRM is already on the air in some cities and there are dates for the roll-out of the service across the country, which you can find on the All India Radio website. So it is not so far away.

What we still need to sort out is the way the government, manufacturers and all the stakeholders can make the new digital receivers affordable to all Indians. That will make them affordable in other countries too. Once that happens, other countries will be more convinced to adopt DRM.

Land Rover Jaguar have just joined the DRM consortium. Does that mean that they will soon have DRM radio in their cars?

That is a question for them. But we are absolutely delighted to see them join the consortium. A very successful company like Land Rover Jaguar, which is owned by Indian conglomerate Tata, would not look to join our consortium unless they believed in the future of DRM. The digital receiver is a much easier to fit into a car and so, for that reason, we do see DRM in cars very soon.

Thailand is set to announce digital radio in the next year or so. Will they go for DRM?

We have recently received a delegation from Thailand in the UK. They were very interested in the British experience, which has been the most successful roll-out of digital radio in the world, so far. They also got presentations on DRM.

I hope in the future that we will be able to demonstrate that DRM has the potential to help regularise the situation of the many, many stations in Thailand and also offer a solution for covering the whole of the country.

Thailand is a very big country and has a large medium wave network that would easily convert it to DRM. It already has very good DRM shortwave facilities. I hope they will choose something that fits its geography and the different social factors around the country.  
(via George Ross via Drita «iÁo, Albania, DXLD)

DIGITAL BROADCASTING --- DAB See U K  
+++++

DIGITAL BROADCASTING --- IBOC  
+++++

RADIO GETS MORE TIME TO REPLY TO IBOC PATENT SUIT

<http://www.radioworld.com/article/radio-gets-more-time-to-reply-to-iboc-patent-suit/222871>

(via Dennis Gibson, Dec 18, Sent from my iPhone, ABDX via DXLD)

IBOC/HD on AM [ FIRST TIME LISTENING EXPERIENCE FROM A DX'er ]

My truck is in the shop, so today I ran a few errands in my wife's car. It turned out to be an eye-opening experience for me. Her car is a 2013 Ford SUV, equipped with an in-dash "everything" system. That includes a radio equipped with AM/FM/Sirius, etc. On past trips, I had listened to IBOC on FM; most of the stations in the Birmingham market use it to run a second channel of programming.

Today, I happened to be alone in the car, and decided that I'd "listen to noise" as my kids like to call it, by checking some of the semi-locals on AM. After a bit of tuning around, I hit the scan button on the radio. And the radio stopped on WYDE 1260 in Birmingham. They were running some nonsense paid program (glorified podcast) that seem common here these days. For a minute or so, it was the usual sound with good signal and some powerline noise as I drove down the road.

Suddenly, the radio turned to crystal clarity...near FM in nature. Good fidelity and no detectable noise at all. I looked down at the radio, and noticed that the "HD" indicator was on above the station frequency, indicating that IBOC was engaged. As I drove around, the IBOC signal jumped in and out, as I was about 30 miles from downtown Birmingham. Curious, I stopped in a good location where the receiver had a steady lock on the signal.

I've heard the hiss of IBOC stations on my Icom receiver in the shack, and looked at the annoying hash on my SDR-IQ display too. Like most DX'ers, I've cursed stations running IBOC at night, as their splatter made it difficult or impossible to DX on adjacent frequencies. But I had never actually heard an AM station running IBOC before.

I continued the scan looking for other stations running HD material, and found only WAPI 1070 AM running the system. The radio gave a brief visual indication that WJOX 690 AM might also be using it, but it would never achieve a "lock".

The experience was very interesting. From a DX'ers point of view, it's a no-brainer. IBOC is bad. It causes interference, and doesn't have the fidelity of the C-QUAM Stereo system of years ago. But from a

listeners point of view, it might have some merit. If I were strictly interested in program content, such as sports talk radio, and that content was only available on the AM band, I think "HD-Radio" would appeal to me.

The sound is much clearer, and the noise from powerlines, auto impulse noise, etc. virtually disappears. That being said, it seems that the technology has failed to achieve critical mass in the marketplace. But I can finally see and hear why so many people thought that the technology had merit. 73, (Les Rayburn, N1LF, 121 Mayfair Park, Maylene, AL 35114, EM63nf, IRCA via DXLD)

Listeners may have embraced it if it actually worked as advertised, didn't drop out constantly. I have a good Sony IBOC tuner and out of all the IBOC AM stations around here (Ma) I've only had one come in with many drop outs which is a 50 kW station, WBZ which is about 40 miles from here. I never heard WTAG 580 a 5 Kw local which pins the carrier meters on my radios day and night and is less than 10 miles from here although the IBOC racket is horrendous. The few times I've locked on WBZ it sounded tinny and artificial although it was clear and the locks were usually less than a minute's duration. Analog FM sounds much better to my ears than did AM IBOC. You don't hear power line noise etc because noises like that makes it drop out back to tinny analog (tinny because of the narrow bandwidth IBOC forces on AM stations) and you then hear it anyway, if you locked there was no probably no static in the first place. I'd rather hear the station I'm listening to with noise in the background than hear drop outs. I had to put an old Ratshack Yagi on my roof to pick up other FM IBOCs besides WGBH a 100 kW FM at again approx 40 miles from here and actually is probably much less. By the way I realize I am preaching to the choir! (Bob Young, Millbury, MA, NRC-AM via DXLD)

You were of course listening during the day, and the situation would have been considerably worse at night. Obviously Birmingham's big FM signals are solid at 30 miles.

That said, there are companies expending quite a bit of \$\$ trying to launch 250-watt commercial FM stations (through the use of FM-HD subchannels and FM translators) What you experienced with WYDE would compete well with these 250-watt operations.

The real wildcard is full-digital mode. I'm now reading a third station (WNCT-1070) has tested this way. In all-digital, the digital signal seems to work in any place where the analog would have delivered a protected-contour signal. And as you observed, where it works it sounds good (I've noticed some compression artifacts on spoken-word programming -- artifacts that surprisingly didn't appear when the station was airing music -- but I'm hearing upgrades to the

encoders have fixed that?).

I think AM HD could make a go of it through duopolies. Got two AM stations in the same market? Flip one to all-digital & use it to simulcast the other one. Get the advantage of FM-quality audio for HD-equipped listeners (and the coverage that will make buying a HD receiver worthwhile) without throwing away your analog-only audience. == (Doug Smith W9WI, Pleasant View, TN EM66, ibid.)

Bob, I need to check into it more. We don't own an HD receiver with the exception of the one in my wife's car, so it's impossible for me to comment beyond that. My testing today was limited to an hour or so; and I live in Shelby County. Birmingham and Red Mountain, where most of the transmitters are located are in Jefferson County, and I'm about 30 miles or so away.

WYDE was coming in well as I approached Pelham, Alabama which is headed north from my home. While the receiver would drop it and out of lock, once I was 10 miles or so closer to Birmingham it was pretty solid. I listened carefully for artifacts on both speech and music and heard neither. I was literally amazed by how well it did sound. Hard to believe it was even AM radio.

In this car, static is present almost constantly while in motion. Powerlines, impulse noises, and other RFI emitters are near constant has one drives down Highway 31. Sometimes the receiver held lock for over five minutes at a time, while the car was in motion, and no noise was heard during that time. Not sure how the encoding work, but it reduces noise to nearly nothing.

If a system like Doug Smith mentioned could be developed that allowed true digital transmission without losing the analog coverage, that would certainly breathe some new life into the band. I don't think IBOC is the answer, but digital solutions might be.

I wonder if the technology has matured since it first started? Is there a list of AM stations running IBOC that is current somewhere? Google searches have only turned up outdated lists. While driving tonight, I tried to tune in WLW, 700 KHz who were running the Bengals game. I could see the HD indicator flashing, but the station never achieved a lock. Have DX'ers been successful in getting a lock via skywave? I'm really curious what that must be like. 73, (Les Rayburn, N1LF, Birmingham, AL, ibid.)

RADIO EQUIPMENT FORUM  
+++++

HEATHKIT UPDATE, DECEMBER 2013



Quite some time ago a group announced its intention to do business as Heathkit. It had an online survey to determine what types of products potential customers are interested in. I took the survey and hadn't heard from it until now.

I recall being interested in some of the products mentioned in the survey. I think it said some products would only be available assembled while others available as kits. Unfortunately I don't recall much about the details. I may see what they have to say (Dennis Gibson, Sent from my iPhone, Dec 18, ABDX via DXLD)

Begin forwarded message:

From: Heathkit <heathkit-insider-mailing-list-robot-2013@heathkit.com>  
Date: December 18, 2013, 11:48:33 AM PST

Dear Heathkit Insider, The response to our survey has been formidable. There's no question that many people --- many thousands of people --- want Heathkit to succeed and flourish. We thank you for your good will and interest.

We promised not to clutter your email inbox with noisy communications you don't want, and we've kept that promise. Meanwhile remember that if you are a Facebook user, a good way to stay up-to-date is to join our Facebook page and "Like" us, at <http://www.facebook.com/heathcompany>

Later this week there will be a special "Ask Me Anything" event on Reddit.com where a member of Heathkit's Board of Directors will be available for an hour to chat live and answer questions about our progress and plans.

On Friday 20-Dec-2013 at 8pm EST / 5pm PST (which is Saturday 21-Dec 0100 UT), please join us at <http://www.reddit.com/user/HeathCompany/submitted>

When the event starts, a link to it will appear at the top of that page. (Please remember Reddit is an open, unmoderated public Internet forum -- we do not control who participates or what anyone else says in that public location. The usual Internet etiquette and safety rules apply.)

We're thankful for your patience and enthusiasm. And we look forward to seeing you on Reddit this Friday evening. Sincerely,  
The Heathkit Management Team

Heathkit (R) is a registered trademark of Heath Company. (c) 2013 All

rights reserved. Heathkit(R) in all uses, the Heathkit name, the Heathkit logos and slogans, and "Heathkit( R) Educational Systems" are internationally registered trademarks of Heath Company. This message was only sent to people who opted in to the Heathkit Insiders email list (via Gibson, ABDX via DXLD)

PROPAGATION  
+++++

RELAT"RIO DE ESCUTA FM - CARIBE - 90.7 MHZ - 15/12/2013

Amigos, ontem a TEP esteve muito boa aqui na cidade de S,,o Paulo, foi uma das melhores escutas que fiz. Foram 3 aberturas em sequencia e resumi em 4 arquivos de video.

A primeira abertura foi de curta duraÁ,,o, entre 22:35 e 22:41 local ou entre 0035 e 0041 UT. A segunda abertura foi entre 23:15 e 23:32 local ou entre 0115 e 0132 UT. A terceira abertura foi a melhor, entre 23:43 e 00:35 hor·rio de ver,,o, ou 0143 e 0235 UT; essa parecia que n,,o iria acabar mais.

Em todas elas tinha a oslilaÁ,,o caracterÌstica da TEP de melhora e piora do sinal, e sempre quando diminuía entrava a Conectcar SP Rio FM junto. essa emissora È muito dificil a identificaÁ,,o porque toca muita m'sica e pouca entrada de locutores, eu procurei gravar sempre quando a m'sica estava acabando na expectativa de entrar um locutor ou de uma vinheta mas sempre uma m'sica atr·s da outra e com estilo cl·ssico dos anos 50 e 60, por sorte na abertura de maior tempo consegui gravar a identificaÁ,,o, gostaria da ajuda dos amigos, a locutora disse o nome e uma frequencia diferente da sintonizada, eu postei o video da identificaÁ,,o no primeiro link:

[http://youtu.be/f0ILz\\_xToR4](http://youtu.be/f0ILz_xToR4)  
<http://youtu.be/C-owjMBGdxQ>  
<http://youtu.be/DM0qQ9tIuPA>  
<http://youtu.be/y9cTUhiF3f0>

73Ys (Fran Jr., S,,o Paulo SP, Sony XDR F1HD, Antena Interna Direcional Yagi 5 Elementos, 16 Dec, radioescutas yg via DXLD)

HELIOVIEWER

While browsing, in ARLP050 in 2010 I found an interesting resource that I had forgotten about at  
<http://www.helioviewer.org/>  
With this tool you can set up a movie of recent or past solar images, and have them continually animated at a variety of rates and representing a time period of your choosing (QST de W1AW, Propagation

Forecast Bulletin 51 ARLP051, From Tad Cook, K7RA, Seattle, WA,  
December 13, 2013, To all radio amateurs, via Dave Raycroft, ODXA yg  
via DXLD)

:Product: Weekly Highlights and Forecasts  
:Issued: 2013 Dec 16 0846 UTC  
# Prepared by the US Dept. of Commerce, NOAA, Space Weather Prediction  
Center  
# Product description and SWPC contact on the Web  
# <http://www.swpc.noaa.gov/weekly.html>  
#  
# Weekly Highlights and Forecasts  
#  
Highlights of Solar and Geomagnetic Activity 09 - 15 December 2013

Solar activity remained at low levels during the week, but two  
Earth-directed coronal mass ejections (CMEs) were observed  
associated with two filament eruptions. The first was a 15 degree  
filament, centered near S31W41, that was observed in SDO/AIA 304  
imagery lifting off the solar disk from 12/0304 UTC to 12/0330 UTC.  
In H-alpha imagery, it appeared that the eruption was connected to  
Region 1912 (S21, L=140, class/area=Hsx/110 on 09 Dec) and was  
largely responsible for the C4/Sf flare at 12/0336 UTC. The eruptive  
filament structure had an associated Type II (estimated at 511 km/s)  
and Type IV radio sweeps as well as a partial halo CME first  
observed in SOHO/LASCO C2 imagery at 12/0336 UTC.

Later on 12 December, a 7-degree filament eruption centered near  
S32E27 was observed from approximately 12/0451 UTC to 12/0624 UTC.  
The filament eruption appeared in conjunction with the C3 flare at  
12/0659 UTC from Region 1917 (S15, L=77, class/area=Dkc/340 on 15  
Dec), as observed in GOES-15 SXI imagery. An associated CME was  
observed in SOHO/LASCO C2 imagery beginning at 12/0636 UTC.  
WSA/Enlil model output indicated a glancing blow from the  
combination of both CMEs was likely by early on 15 December.

Region 1921 (N07, L=43, class/area=Hkx/400 on 15 Dec) produced the  
largest flare of the week, a C5/Sf at 12/2214 UTC, and was also the  
largest region on the visible disk. The remainder of the week was  
characterized by low level C-class events and several CMEs, none of  
which appeared to be particularly Earth-directed.

No proton events meeting alert criteria were observed at  
geosynchronous orbit, however an enhancement in 10 MeV flux was  
observed from 14 - 15 December. The peak flux observed by GOES-13  
was 1.68 pfu at 15/0005 UTC.

The greater than 2 MeV electron flux at geosynchronous orbit ranged

from normal background to moderate levels during the week.

Geomagnetic field activity began the week at quiet levels with the exception on a single unsettled period on 10 December. By weeks end, the geomagnetic field activity increased to active levels with minor storm periods observed at high latitudes. A geomagnetic sudden impulse was observed in global magnetometer data (e.g. 26 nT at Canberra, Australia) at 12/1323 UTC following an interplanetary shock seen in ACE/SWEPAM data at 13/1210 UTC. This shock was believed to herald the arrival of a corotating interaction region in advance of a negative polarity coronal hole high speed stream. Over the next 36 hours, solar wind speed would increase from around 270 km/s to reach a maximum of 607 km/s on 14/2114 UTC. Examination of ACE/EPAM low energy particle flux showed peaks around 14/1400 and 14/2300 UTC, suggesting the CMEs mentioned earlier arrived, embedded in the high speed solar wind stream. Bz reached a minimum near -12 nT at 14/0248 UTC and active conditions were subsequently observed during the 14/0300-0600 UTC synoptic period. A second active period was observed during the 14/1800-2100 UTC synoptic period while activity reached minor storm levels at high latitudes. The following day saw a return to mostly quiet conditions.

#### FORECAST OF SOLAR AND GEOMAGNETIC ACTIVITY 16 DEC 2013 - 11 JAN 2014

Solar activity is expected to be at low levels with a chance for M-class events (R1 - minor - radio blackouts) through the period, particularly with the return of Old Region 1913 on 18 Dec.

No proton events are expected at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit is expected to begin the period at high levels through 18 Dec, decreasing to normal to moderate levels for the remainder of the forecast period.

Geomagnetic field activity is expected to reach active levels on 26-27 Dec, 03-04 Jan, and 10 Jan in response to recurrent coronal hole high speed streams. Minor storm conditions may be possible on 04 Jan. Quiet to unsettled levels are expected for the remainder of the forecast period in the absence of any transient features.

:Product: 27-day Space Weather Outlook Table 27D0.txt

:Issued: 2013 Dec 16 0846 UTC

# Prepared by the US Dept. of Commerce, NOAA, Space Weather Prediction Center

# Product description and SWPC contact on the Web

# <http://www.swpc.noaa.gov/wwire.html>

#

# 27-day Space Weather Outlook Table  
 # Issued 2013-12-16  
 #

| #    | UTC    | Radio Flux | Planetary | Largest  |
|------|--------|------------|-----------|----------|
| #    | Date   | 10.7 cm    | A Index   | Kp Index |
| 2013 | Dec 16 | 150        | 5         | 2        |
| 2013 | Dec 17 | 150        | 5         | 2        |
| 2013 | Dec 18 | 155        | 5         | 2        |
| 2013 | Dec 19 | 155        | 5         | 2        |
| 2013 | Dec 20 | 150        | 5         | 2        |
| 2013 | Dec 21 | 140        | 5         | 2        |
| 2013 | Dec 22 | 135        | 5         | 2        |
| 2013 | Dec 23 | 135        | 5         | 2        |
| 2013 | Dec 24 | 150        | 5         | 2        |
| 2013 | Dec 25 | 155        | 5         | 2        |
| 2013 | Dec 26 | 155        | 12        | 4        |
| 2013 | Dec 27 | 160        | 10        | 4        |
| 2013 | Dec 28 | 160        | 8         | 3        |
| 2013 | Dec 29 | 165        | 5         | 2        |
| 2013 | Dec 30 | 165        | 5         | 2        |
| 2013 | Dec 31 | 165        | 5         | 2        |
| 2014 | Jan 01 | 170        | 5         | 2        |
| 2014 | Jan 02 | 170        | 5         | 2        |
| 2014 | Jan 03 | 175        | 10        | 4        |
| 2014 | Jan 04 | 175        | 20        | 5        |
| 2014 | Jan 05 | 175        | 5         | 2        |
| 2014 | Jan 06 | 175        | 5         | 2        |
| 2014 | Jan 07 | 170        | 5         | 2        |
| 2014 | Jan 08 | 165        | 5         | 2        |
| 2014 | Jan 09 | 165        | 5         | 2        |
| 2014 | Jan 10 | 165        | 15        | 4        |
| 2014 | Jan 11 | 160        | 7         | 2        |

(SWPC via WORLD OF RADIO 1700, DXLD)

TIPS FOR RATIONAL LIVING

+++++

ROGER & ME

Thank You, Library of Congress: 'Roger & Me' to Be Added to National Film Registry Õa note from Michael Moore Wednesday, December 18th, 2013

Friends, This morning it was announced by the Library of Congress and the National Film Preservation Board that my first film, 'Roger & Me', has been placed on the National Film Registry -- the official list of films that are, according to an act of Congress, to be preserved and protected for all time because of their "cultural and historical

significance" to the art of cinema.

It is, to say the least, a huge honor that for me ranks right up there with the Oscar and the Palme d'Or at Cannes. The National Film Registry is a slightly rarefied list of movies in the history of cinema. Of the tens of thousands of films that have been made since the 1890s, only 600 are on the preservation list. Today, in addition to 'Roger & Me', the films that were announced selection to the preservation list include 'Who's Afraid of Virginia Woolf?', 'Mary Poppins', 'Pulp Fiction', 'Forbidden Planet', 'The Quiet Man', 'The Magnificent Seven' and 'Judgment at Nuremberg'.

These films plus 'Roger & Me' now join 'Citizen Kane', 'The Graduate', 'Dr. Strangelove' and a host of other classics that make up the National Film Registry.

The news comes at just the right moment for 'Roger & Me'. The upcoming year, 2014, is the 25th anniversary of the film's debut. But last year I learned that there was not a single print of 'Roger & Me' in existence. Anywhere. I was stunned. I had received a call from the New York Film Festival asking if I knew where they could find a 35mm copy of the film. They were told there were no usable prints in North America -- all of them had been damaged or destroyed or had faded in color. How could the largest grossing documentary of all time in 1989 just have vanished? Poof. Gone. And if this could happen to 'Roger & Me', what kind of shape are other films -- especially documentaries -- in?

I called up the good people of Warner Bros. to help me fix the problem -- and they did. In the end ten new prints were made and are now being donated to archival vaults at UCLA, the Motion Picture Academy, the Museum of Modern Art and the George Eastman House.

But now, with the protection offered by the Library of Congress, 'Roger & Me' will be in good hands and around for a long time to come.

You should know that there is a serious film preservation crisis afoot and I've volunteered to help do something about it. I often hear of other films whose prints are all gone. I have personally paid to have new prints made for a number of films ('Hair' by Milos Forman, the old Roy Rogers classic 'Don't Fence Me In', etc.) where not a single print exists. I have donated them to one of the above archival houses and I plan to keep doing this for other movies (Next up: Dalton Trumbo's 'Johnny Got His Gun').

As for 'Roger & Me', if you haven't seen it, check it out on iTunes or Amazon or (for a few hours for free) here. This movie, as most of you know, was my first chapter in a series of eight films that, in part,

explore (often satirically) the crazy stupid thing we call "capitalism" -- a never-ending quest by the wealthy to take as much as they can, while leaving the crumbs for everyone else to fight over.

Today, according to the polls, more young people say they favor the ideals of socialism over capitalism. I hope to God I played a small role in making that happen, and I look forward to the day when the rich are forced to share the wealth created by their employees. It will happen. In our lifetime.

I thank the Library of Congress and the National Film Preservation Board for this honor. And I encourage all of you to watch my film, a film that, sadly, is every bit as relevant today as when I made it 25 years ago.

I hope all of you are well and enjoying this holiday season. There is much work to do in 2014!

Yours, (Michael Moore  
MMFlint@MichaelMoore.com  
@MMFlint  
MichaelMoore.com  
via DXLD) ###